

GV

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v. 3













# Go ahead in safety



**W**HEN you carry HAGSTROM INSIDE TIRE SLEEVES in your tool box there is no need of carrying extra casings. The Hagstrom Sleeve fills the bill. They do not disfigure your car and, once inserted in the tires, will last thousands of miles; they positively can not creep and will build up the weak spots; saves vulcanizing, if applied in time, prevents rim cuts and blow outs; easy to insert and will save a large per cent of your tire expense. The Hagstrom Tire Sleeves are the greatest sensation of the season in the auto-tire accessory line, and is the only sleeve that has the endorsement of

*our leading motorists and racing men.*

Workmanship and material are carefully selected. The Hagstrom Sleeves are put up in boxes, making them convenient to carry. Ask your dealer. On sale everywhere.

HAGSTROM BROS. MANUFACTURING CO.

Works and Main Office  
LINDSBORG, KANSAS

# Do You Wonder that the Splitdorf Product Leads the World?

---

The Most Marvelous Non-Stop Automobile Run  
Ever Made—10,000 miles without stopping its engine  
recently accomplished by a Maxwell car equipped with a

## **SPLITDORF MAGNETO**

---

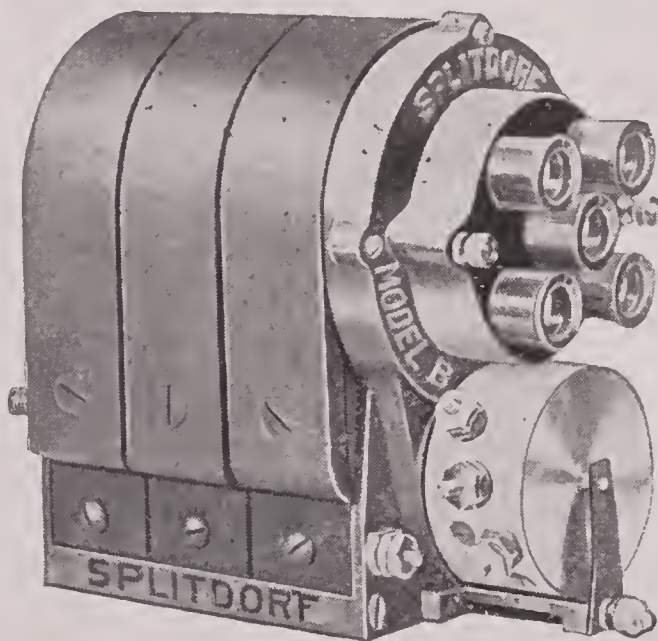
AND

## **COMMON SENSE PLUGS**

---

Magneto and Plugs gave absolutely perfect ignition  
during entire run.

It is comparatively easy for any Magneto or Plug to show  
good results in a race of 400 or 500 miles, but a gruelling test  
of 25 days' continuous and perfect work is a performance  
that proves to the utmost the efficiency and reliability of this  
incomparable Magneto and Plug.



The following is the last paragraph  
of a letter received by us from the  
Maxwell-Briscoe Motor Co. regarding  
this unparalleled feat:

"This test has conclusively  
proved to us that your Mag-  
neto is superior to anything  
we have ever used.

Yours very truly,  
MAXWELL-BRISCOE MOTOR CO.  
C. W. Kelsey."

---

Ask for Magneto catalog

---

CHICAGO: 319 Michigan Ave.  
SAN FRANCISCO:  
520 Van Ness Ave.  
DETROIT: 886 Woodward Ave.  
BOSTON: Motor Mart.

# **C. F. SPLITDORF**

Walton Ave. and 138th St.  
Branch, 1679 Broadway

# **NEW YORK**



# Autoline

The Perfect Lubricating Oil for All Types of Motor Cars  
and Motor Boats

## The Oil that Saves the Motor

A supply of Autoline for cylinders, Greoil for transmissions  
and B Journal Compound for bearings on a long trip se-  
cures a maximum of efficiency and a minimum of worry.

# Autoline

IF PROPERLY USED

## Will Not Carbonize--Will Not Soot

Quality and uniformity guaranteed—Accept no substitute.  
There is nothing “Just as Good” for a motor car of any  
description. If your garage does not keep Autoline,  
write us and name make of your car.

# Autoline

Manufactured by

**Wm. C. Robinson & Son Co.**

CHICAGO, ILL.

TERRE HAUTE, IND.

BALTIMORE, MD.

BOSTON, MASS.

PHILADELPHIA, PA.

PITTSBURG, PA.

CINCINNATI, O.

REFINERY AT CORAOPOLIS, PA.



First on Land, First on Sea,  
First in the Hearts of All Motormen

# Mosler Spit Fire PLUGS

## Lead the World

USED BY THE LEADING MANUFACTURERS  
MAGNETO TYPE OF ALL SIZES

*Made to fit any engine, any thread.*

*Have heavy Genuine Iridium Platinum Points.*

*Can be had for the asking.*

### Energetic Ignition

BASE Protects Porcelain and Sparking Points  
BASE acts as Condenser of Electricity  
BASE Forms Compression Chamber

### Greater Power

BASE Makes Plugs Spit Fire  
BASE Economizes Current  
BASE Facilitates Sparking

**INSIST UPON THE TWO PATENTED SIDE CLEANING HOLES**

*—One is not enough!*

*We Protect our Registered Trade Mark and Patents. Dealers and Jobbers **BEWARE!***

Do not be deceived by any other "Fire" name.

There is only ONE GENUINE "Spit Fire" plug—that made by

**A. R. MOSLER & CO.**

Originators of the "Spit Fire" principle

## A TRIUMPH FOR THE SPIT FIRE

The **ONLY** Plugs in the **WORLD** that **ACTUALLY** Spit Fire

**INSIST ON THE GENUINE, with Name on Porcelain and Base**

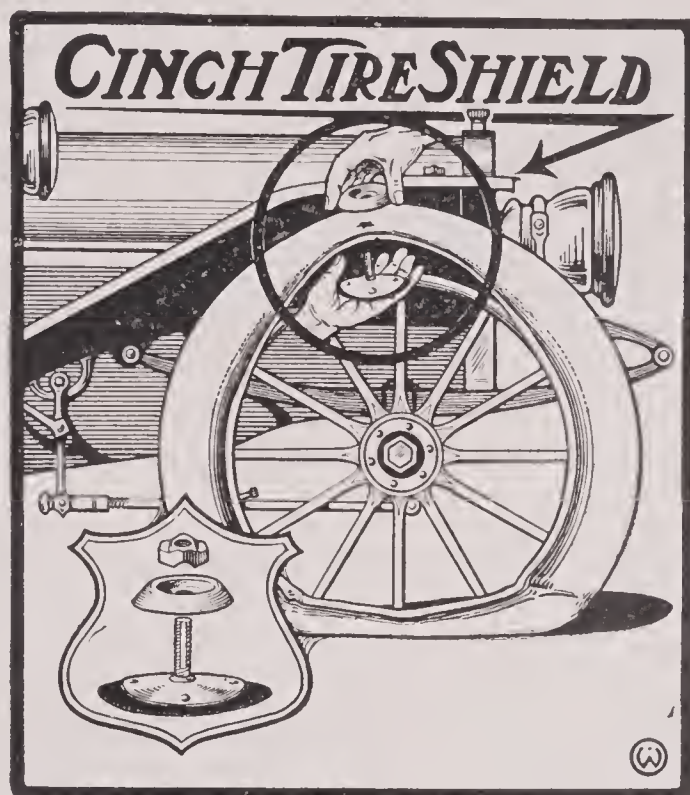
**A. R. MOSLER & CO 163 W 29th Street, New York**



Don't Walk Home

Don't Run on Flat Tires

Put on a **CINCH**



Patent Allowed

**ARE YOU PREPARED FOR A BLOW-OUT?**

IF NOT

**GET A CINCH TIRE SHIELD**

Made to fit any sized tire

Made either of **LEATHER REINFORCED** with **STEEL** or of  
**STEEL COVERED WITH CANVAS**

**WHY CARRY EXTRA CASES?**

Put a few Cinches in the tool box and repair any and all blow-outs

**ASK FOR OUR CATALOGUE**

OF

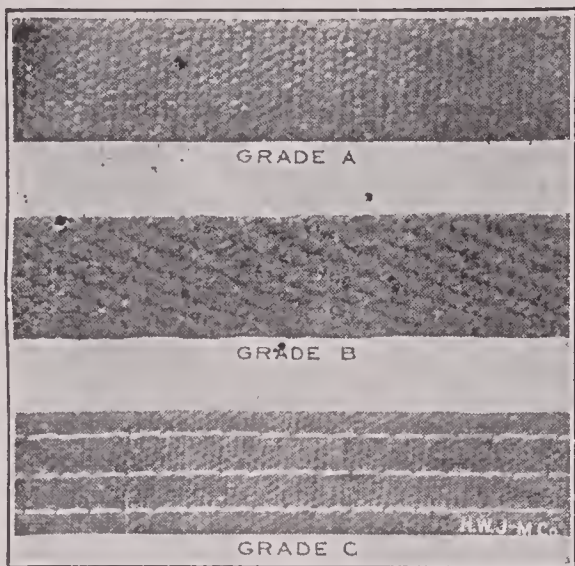
**AUTO NOVELTIES AND SUPPLIES INCLUDING THE MARVELOUS  
TARNISH PREVENTATIVE**

---

**LAWRENCE & WELCH**

**STERLING, ILLINOIS**

*For sale by all Reliable Dealers*



MADE IN THREE GRADES—  
Any Length or Thickness

**NON-BURN BRAKE LINING** is made of pure long-fibred Asbestos with brass wires inserted. Heat from friction or oil and water do not affect it. Wears 40,000 to 50,000 miles.

*Write nearest Branch for Sample and Booklet.*

## Non-Burn Brake Lining Locked Wheels Instantly

Out of the five most largely used brake band linings recently put to an exhaustive test by Mr. J. D. Maxwell, of the Maxwell Briscoe Motor Company.

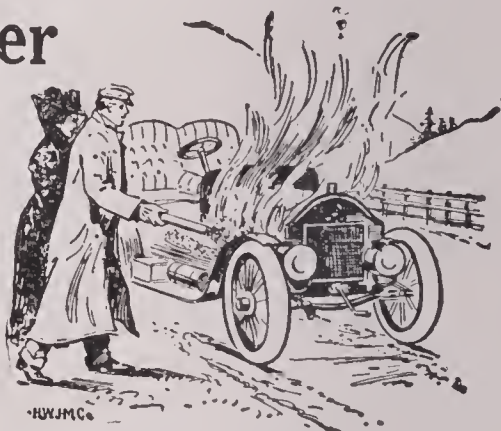
Non-Burn was the only one which locked wheels of car **INSTANTLY**. The lining which came nearest to this locked wheels in 12 feet.

A difference of only one foot in the stopping distance often averts a serious accident!

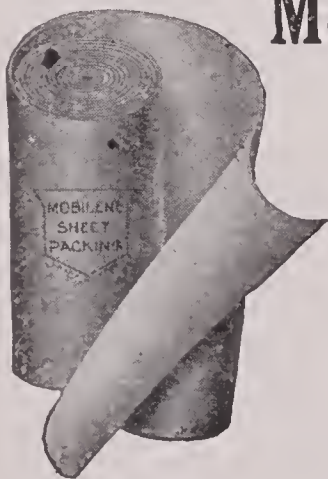
## Manville Fire Extinguisher

is absolutely warranted to put out any fire, whether arising from gasoline, benzine, calcium carbide, or any other cause, if thrown at the base of flames when fire first starts. It is also warranted not to injure paint or the upholstering, and not to freeze, cake in the tube, corrode or deteriorate with age.

Is always ready, always sure. **Over a Half Million in Use.**



*Write nearest Branch for Booklet.*



## Mobilene Packing Won't Blow Out

**MOBILENE PACKING** does not burn, char, harden and blow out like rubber, cloth and other so-called gas-engine packings. It is made of an indestructible mineral — *asbestos* — which heat does not affect.

**MOBILENE** also has exceptional strength because fine brass wires are intertwined in each strand. It is pliable, compressible and easily cut. Is graphited one side and all ready to apply.

See that it is used on your auto and avoid vexatious delays. **Write nearest Branch for Sample and Booklet.**

# H. W. JOHNS-MANVILLE CO.

Baltimore  
Boston  
Buffalo  
Chicago

Cleveland  
Dallas  
Detroit  
Kansas City

London  
Los Angeles  
Milwaukee  
Minneapolis

New Orleans  
New York  
Philadelphia  
Pittsburg

San Francisco  
Seattle  
St. Louis



# Waterhouse

## Carburetor

No re-hashing of old methods,  
fundamentally new

IT HAS ONLY ONE ADJUST-  
MENT, THE NEEDLE VALVE,  
ONCE SET REMAINS FIXED  
FOR ALL SPEEDS

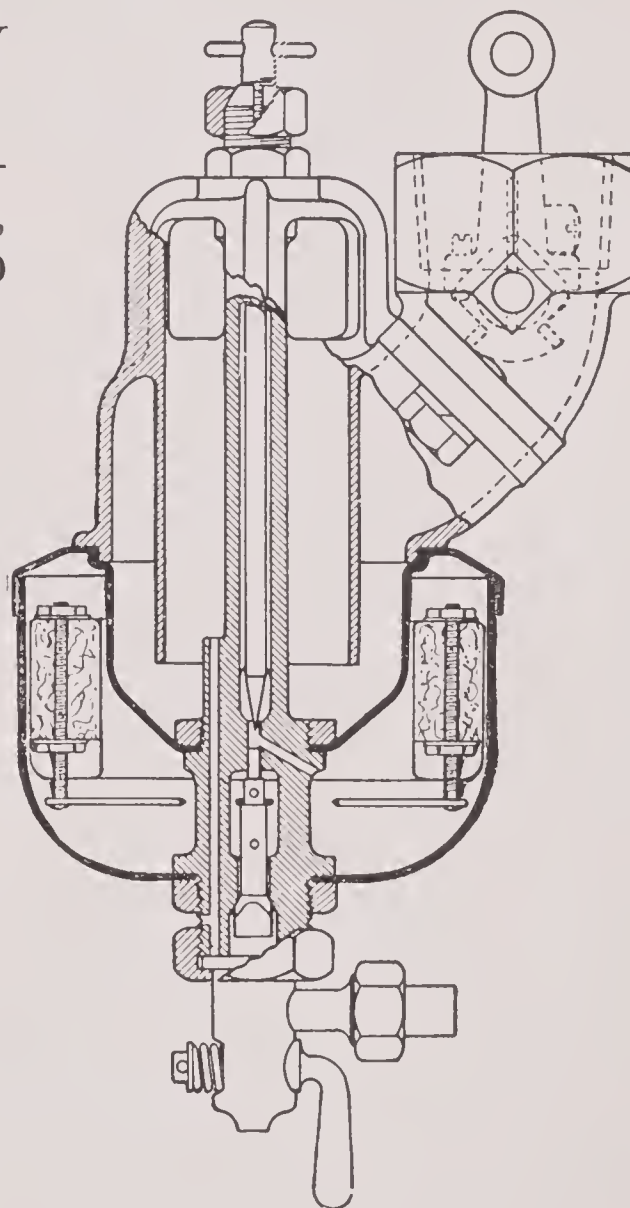
No Air Auxiliaries, no Springs  
and no Spray Nozzle, can't  
Flood.

Always primed for starting, won't  
choke up. Responds to the  
throttle instantly.

It's light in weight and very tiny.

Extremely powerful and gives  
absolutely no trouble.

Its price is low.



ONE-HALF ACTUAL MEASUREMENTS OF  
ONE INCH SIZE

Makers of the  
celebrated

Bemus  
Timers

**Monitor Mfg. Co.**

28 PELHAM COURT  
Boston, Mass.

Manufacturers of the  
Famous

Monitor  
Distributors

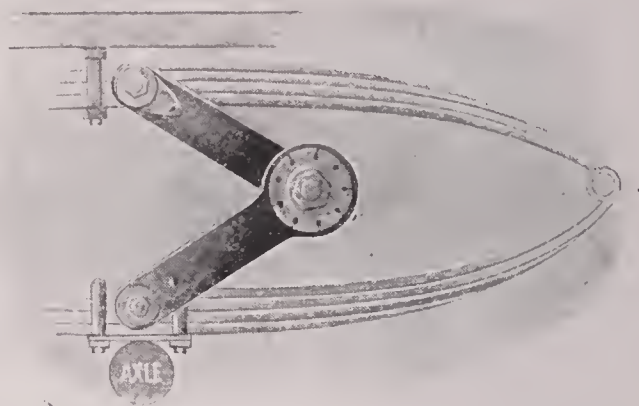
# STOP THE JAR AND SHOCK

AND THE EVER WORKING INJURY TO YOUR  
CAR BY THE USE OF THE

## WESTEN SHOCK ABSORBER

THE ONLY SHOCK ABSORBER MADE THAT  
WILL AUTOMATICALLY ADJUST THEMSELVES  
TO ANY LOAD OR ROAD CONDITIONS.

This absorber automatically adjusts itself to the natural position regardless of the load carried by the vehicle, and at the same time brakes the upward as well as the downward motion of the springs.



In the ordinary shock absorber the absorbing qualities are lost by the addition of extra weight, or if the car meets with an unordinary obstruction. While the vibration of the engine is in no way checked and is the cause of much wear and tear. Westen Shock Absorbers catch all vibrations at all times no matter how small or how great. The automatic adjustment within itself make them superior. After once attached to your car assurance of safety and less cost for upkeep is guaranteed, and the unpleasant sound of the nerve racking rat-

tle of loose parts is eliminated.

You should realize at once the damage done by oscillation and equip your car with Westen Shock Absorbers. You will then be prepared to meet unexpected jolts and unseen depressions in the road and add, at the same time, comfort to the passengers of the car.

There are two friction planes which make the absorber capable of offering different degrees of resistance to the action of the vehicle springs under varying conditions.

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## WESTEN MANUFACTURING Co.

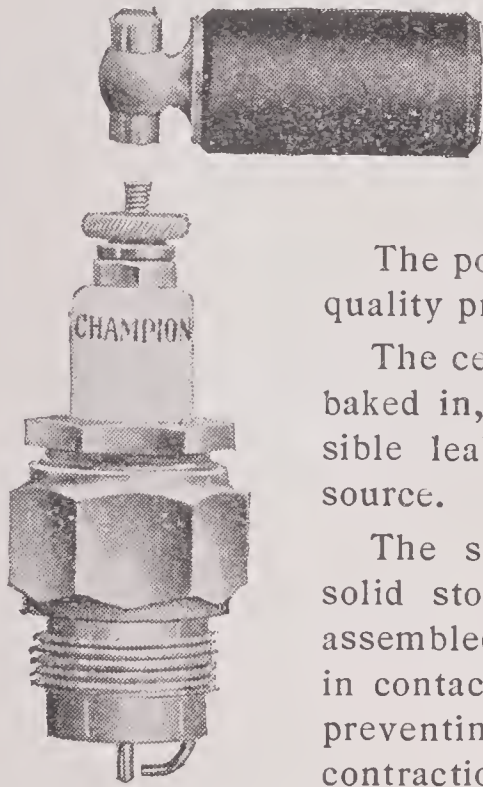
290 HALSEY STREET

Newark, New Jersey



# The Right Spark Plug is an important adjunct to any Gas Engine

---



In the construction of the Champion Spark Plug the utmost care is given to every detail, thus assuring the best results.

The porcelain is of the very highest quality procurable.

The centre wire is firmly cemented and baked in, thus doing away with any possible leak of compression through that source.

The shell and bushing are cut from solid stock and so designed that when assembled porcelain does not actually come in contact with either at any point, thus preventing any chance of breakage from contraction or expansion of metal.

The workmanship on parts is so good and so accurate that no matter how many times the plug is taken apart and re-assembled the porcelain is always perfectly centered.

The electrodes or points are of nickel alloy; will not oxidize; are imperforable to spark of almost any intensity; are especially adapted to use with magneto, under which use the points will not burn off as they do on so many other plugs.

The combustion chamber at lower extremity of porcelain keeps the points free from soot, and practically eliminates any necessity for cleaning.

We particularly recommend the use of Champion Plugs under severest conditions, such as very high compression, excessive oil in cylinders, with magneto, etc.

Genuine Champion Spark Plugs are manufactured only by

## The Champion Company

36 Whittier Street, Boston, Mass.



This is

a cash



proposition

\$**10**.00 only

Compare these sizes with other 6 volt  
60 ampere Batteries

**8 x 6 $\frac{1}{4}$  x 9 $\frac{1}{8}$**

Guaranteed for one year or money refunded. Made in  
sizes from 40 amperes up

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**MICHIGAN STORAGE BATTERY CO.**

67 East Atwater Street, Detroit, Mich.

**YOUR CAR CANNOT RUN EASIEST**

**Nor Last Longest Without the Best Lubricant**

The ONE Automobile Oil and the  
ONE Automobile Grease you  
can always depend upon—that gives  
PERFECT SATISFACTION and  
reduces cost of lubri-  
cation and repair bills  
to a minimum is

**SPEARE'S**

**AUTO OIL AND GREASE**

**THEY SAVE WEAR  
INCREASE POWER and  
EVERY DROP LUBRICATES**

**THE SEAL  
THAT PROTECTS  
YOUR ENGINE**

**WHY?**

Because they are manufactured  
by a firm with fifty-five years'  
experience in the lubricating oil  
business.

**Speare's Body Soap  
Speare's Metal Polish  
Speare's Waste**

are also the most economical  
you can buy

SPEARE'S GOODS are sold everywhere;  
if not, send dealer's name and write us direct.

DEALERS—Send for Speare's latest propo-  
sition.

**THE ALDEN SPEARE'S SONS CO.**

Established 1851

253 Broadway  
New York

369 Atlantic Avenue  
BOSTON, MASSACHUSETTS

21 River Street  
Chicago



# T. S. D. Recording Company

(Metropolitan Building)

NO. 1 MADISON AVENUE, NEW YORK

Manufacturers of best modern devices and instruments for accurately measuring **TIME, SPEED, DISTANCE**, including stops or waiting time, and permanently registering same.

Machines suitable for all kinds of vehicles—horse drawn or motor.  
**Especially adapted for Automobiles.**

**T. S. D. Combination Recorder**, containing within a highly polished brass case, securely locked, with plate glass front, a Speedometer, Odometer, Clock (eight day, full-jewelled marine movement), and recording tape sufficient for one week, on which is correctly and permanently recorded time employed, speed attained, distance travelled and stops made day or night. **Absolutely eliminates "Joy Rides."**

**T. S. D. Commercial Recorder** (for commercial vehicles), comprising clock and record tape, locked within a solid metal case, and giving a clear, permanent record of exact movement of vehicles, thus preventing or minimizing speeding or loitering.

T. S. D.  
Combination  
Recorder



Half  
Size

T. S. D. Speedometer and Odometer combined

T. S. D. Speedometer— singly

T. S. D. Odometer

T. S. D. Clocks

T. S. D. Taximeter or Taxirecord for taxicabs and  
vehicles for hire

Exclusive  
Territory  
To  
Responsible  
Representatives

The construction of all T. S. D. Machines embodies features which mark a distinct advance in the State of the Art, and will meet all requirements of practicability, reliability, accuracy and durability, which instruments for the service intended should possess.

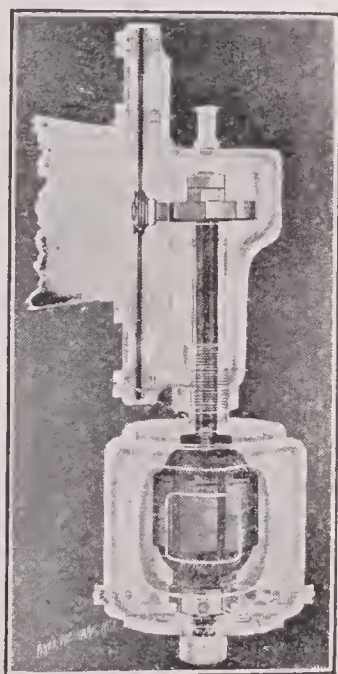


# THE KLAXON

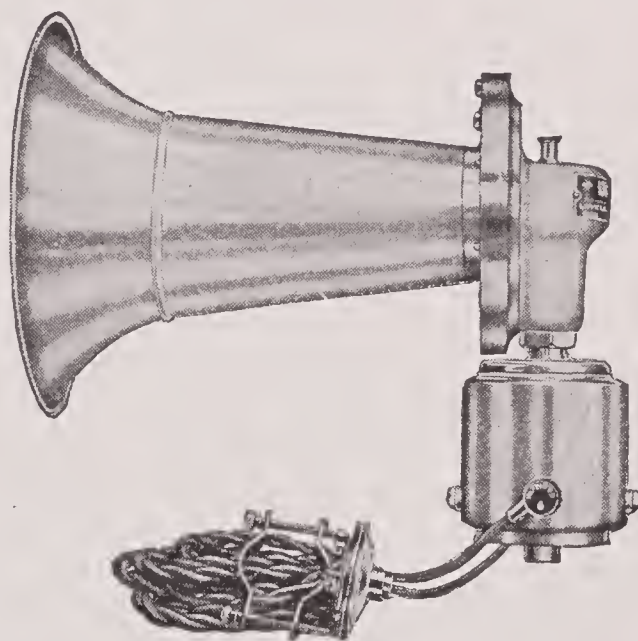
Trade Mark Reg. Patented Mar. 31-08, Jan. 19-09 (2), Feb. 2-09, May 25-09 (3)

“THE X-RAY OF SOUND”

THE “Klaxon” is a Noise machine.  
It is run by an electric motor  
and is built to run for years :: :: ::  
It operates from a 6 or 8-volt stor-  
age battery or 8 dry cells. It is not  
a horn--reed or electric---though it  
looks somewhat like one :: :: ::



Sectional view of KLAXON  
showing relative position of  
motor shaft, toothed wheel  
and vibrating diaphragm.



Type L—Long Projector

**Lovell-McConnell**  
**Mfg. Co.,** *Manufacturers*

365-367 Market Street, NEWARK, N. J.

**The**  
**Klaxon Company**

*Sole Distributors for U. S. A.*

1 Madison Avenue, NEW YORK

# TOURISTS en route between CHICAGO and NEW YORK

Can secure UNIFORM LUBRICATION and FREEDOM from CARBON  
TROUBLES, by calling for

## ANTI-CARBON AUTO OIL

*Made By*

**THE KEYSTONE REFINING CO.**  
**COLUMBUS, OHIO**

at any of the following FIRST-CLASS GARAGES along the route :

**CHICAGO, ILL.**

The Motor Car Supply Co., 1451-53 Michigan Ave.

**HAMMOND, IND.**

Hammond Garage Company

CROWN POINT, IND. }  
GARY, IND. } C. M. Baker

**VALPARAISO, IND.**

A. L. Zimmerman, 251 W. Main St.

**LAPORTE, IND.**

Auto Maintenance Co., 808 Monroe

**LOGANSPORT, IND.**

A. E. Dunn, Main Street

**PERU, IND.—Adams & Sampsel**

**KOKOMO, IND.**

J. E. Palethorpe, 20 East Sycamore

**TIPTON, IND.**

Tipton Garage and Machine Works

**WAUSEON, OHIO**

F. R. Harper

**TOLEDO, OHIO**

Atwood Garage, 2015 Monroe Street



FREMONT, OHIO  
Fremont Auto & Repair Co., 207-09 Garrison Street

TIFFIN, OHIO  
H. P. Klaiss, 123 East Market Street

BELLEVUE, OHIO—E. C. Reitz

OBERLIN, OHIO—A. P. Cook

ELYRIA, OHIO—The Auto Inn

LORAIN, OHIO  
F. S. Rathwell, 425-27 Broadway

WILLOUGHBY, OHIO—Star Garage

ASHTABULA, OHIO  
C. L. Scrivens Motor Co., 13 Spring Street  
BUFFALO, N. Y.—Chas. E. Miller, 824 Main St.

NIAGARA FALLS, N. Y.  
Niagara Falls Auto & Transit Co., 103 Main St.

BATAVIA, N. Y.—Hilte & Kennedy, 24 Main St.

ROCHESTER, N. Y.  
Rochester Auto Supply Co., 375 Main Street

AUBURN, IND.  
Auburn Automobile Co., 54-60 Water Street

SYRACUSE, N. Y.  
Amos & Pierce Automobile Co.

ALBANY, N. Y.  
Albany Garage Co., 28-30 Howard Street  
NEW YORK—Chas. E. Miller, 97 Reid Street

By using the same grade of oil from start to finish you avoid the necessity of changing feed, and we are positive you can not start with a better oil, or one that will cause you LESS CARBON TROUBLE than our celebrated

## **ANTI-CARBON AUTO OIL**

We will appreciate it if consumers will report to us any dealers who try to substitute an inferior oil for our ANTI-CARBON.

**THE KEYSTONE REFINING COMPANY**  
COLUMBUS, OHIO





The same  
consistency  
for all  
seasons of  
the year.

Not  
affected by  
severe con-  
ditions of  
heat and  
cold.



# KEYSTONE GREASE

ESTABLISHED 1884

Holds the record  
for lowest fric-  
tion and greatest  
test for endur-  
ance in the great  
plant of the Wil-  
liam Cramp &  
Sons Ship and  
Engine Building  
Company, Phila-  
delphia.

ORDER IT  
NEXT TIME



Has an estab-  
lished reputation  
in the power  
plant field for  
superiority and  
greatness. Ask  
any engineer  
anywhere.

Is not soluble in  
water like cheap  
grease.

ORDER IT  
NEXT TIME

## The World's Greatest Lubricant

No. 1 Density (solid) for use in all grease cups—on axle bearings or wherever the use of a solid lubricant might be required.

No. 3 Density (semi-solid) for transmission, differential and timing gear cases.

### KEYSTONE

Lubricating  
Company

Philadelphia



CHICAGO  
907 Tacoma Bldg.  
NEW YORK  
1777 Broadway  
BOSTON  
Oliver Bldg.  
NEW ORLEANS  
612 Chartres Bldg.



Dealers and Jobbers write  
for our Special Proposition.



**Gus Balzer** Manufacturer and  
Manufacturers Representative

Representing

**MONOGRAM CREST AND SIGN CO.**

We Handle Following Goods:

Sawed and Etched Name Plates. Radiator Cap Eagles and  
Ornaments. Limousine Bouquet Holders.

We Make a Specialty of all Ornaments that are used on an Automobile

1777 Broadway

New York

The so called Tire Problem is  
no Problem at all to a raft of

**Goodrich Tire**

— U S E R S —

They get inexpensive pleasurable  
milage—and a good deal of it

**The B. F. Goodrich Company**  
Akron, Ohio

Branches in all large Cities

**The "Excentric" Mica Plug**

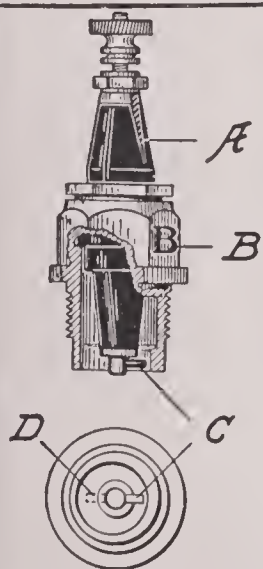
Try it and convince yourself of its  
superiority. Guaranteed for one year

**Mica Core Manufacturing Co.**

Makers of Spark Plugs, Mica  
Cores, Timers and Distributors

446 E. 166th STREET

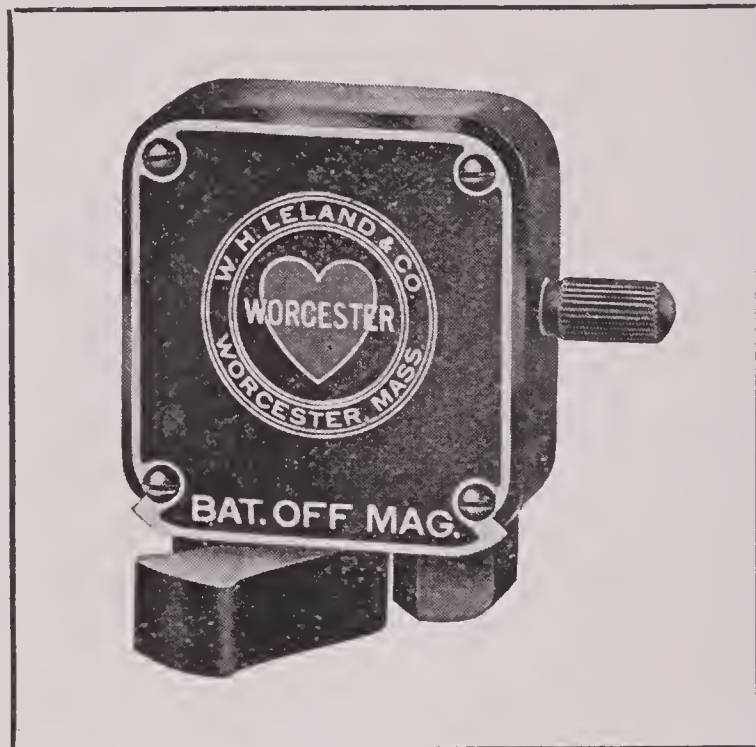
NEW YORK CITY





# WORCESTER IGNITION SPECIALTIES

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WORCESTER COMBINATION ROTARY SWITCH  
(Controller Type)

*Operated by Hand or Foot*

WORCESTER AUTOMOBILE AND MARINE COILS

---

SEND FOR CATALOG

---

W. H. LELAND & COMPANY

---

WORCESTER :: MASSACHUSETTS

# PHOTO-AUTO MAPS

Photographs of every turn, together with a  
**Topographical Outline of Road**  
Showing Railroad Crossings, Bridges, School  
Houses and All Landmarks, with  
Accurate Distances Between

CHICAGO TO DETROIT  
DETROIT TO CHICAGO

---

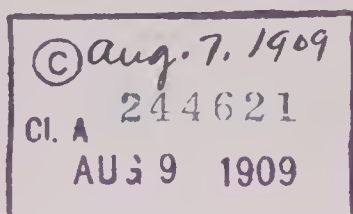
Rand McNally & Company

PUBLISHERS

166 and 168 Adams Street  
CHICAGO

142 Fifth Avenue  
NEW YORK





# Instructions for Using Photo- Auto Maps

---

The best way to use the Photo-Auto Maps is to follow the route by the topographical map and refer to the photographs only to make sure that you are turning at the right place. Use your meter at all times to get the distances between turns. The distances given between turns will vary with different machines, as a slight difference in size of tires, different conditions of the roads and many other things tend to vary the register. Three meters were used and an average taken to get the distances given. The numbers in the squares and circles give the number of the photographs at the turns and the figures outside of them give the distance to the next photograph. The compass on each plate should be used to get correct directions. This map is not drawn to scale, but is made to show the turns to the best advantage. Where turns occur close together the map is enlarged and where there is a long straight run it is condensed, so do not judge distances by the appearances of the map. Go entirely by the meter readings. Distances between closest points only are given to insure the smallest variation. The distances given are the average obtained from three different makes of speedometers and a re-check by the Warner Auto-Meter.

*Copyright, 1907, by G. S. Chapin, Chicago*

*Copyright 1909, by Rand McNally, & Co., Chicago*

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CONTINUED ON NEXT PAGE



# To the Motorist Who is Down on His "Tire Luck"

You don't hear the man who uses Morgan & Wright tires saying much about his "tire luck," good or bad.

After he has used a pair or two, he gets out of the habit of ascribing the completion of a trip or a tour without tire trouble to good fortune. He lays it to "**Good Tires**"—nothing else. He knows that—take tires made as Morgan & Wright tires are, out of the highest grade of materials with a painstaking care in regard to the minutest details of construction, and give them proper care—tire service ceases to be a matter of chance.

He gets a confidence in his tire equipment that adds much to the enjoyment of his car, and a freedom from repair bills that is a big help to his bank account.

There is no truer saying in motordom than that—

**MORGAN & WRIGHT TIRES**  
**ARE GOOD TIRES**

Dealers everywhere sell them at the same price you are asked to pay for other brands.

**Morgan & Wright, Detroit**

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# Simplicity, Strength

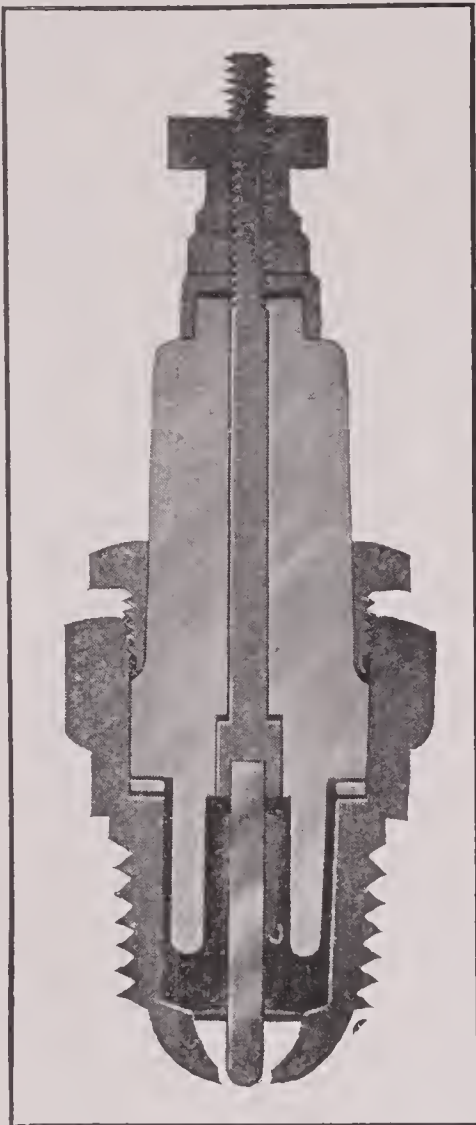
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# Table of Distances Between Points

## CHICAGO TO SOUTH BEND

FROM — TO	Chicago	Hammond	Highlands	Hobart	Wheeler	Valparaiso	Westville	La Porte	New Carlisle	South Bend
Chicago - - - - -	—	19.6	26.9	39.0	44.8	53.4	64.7	76.5	91.0	106.2
Hammond - - - - -	19.6	—	7.3	19.4	25.2	33.8	45.1	56.9	71.4	86.6
Highlands - - - - -	26.9	7.3	—	12.1	17.9	26.5	37.8	49.6	64.1	79.3
Hobart - - - - -	39.0	19.4	12.1	—	5.8	14.4	25.7	37.5	52.0	67.2
Wheeler - - - - -	44.8	25.2	17.9	5.8	—	8.6	19.9	31.7	46.2	61.4
Valparaiso - - - - -	53.4	33.8	26.5	14.4	8.6	—	11.3	23.1	37.6	52.8
Westville - - - - -	64.7	45.1	37.8	25.7	19.9	11.3	—	11.8	26.3	41.5
La Porte - - - - -	76.5	56.9	49.6	37.5	31.7	23.1	11.8	—	14.5	29.7
New Carlisle - - - - -	91.0	71.4	64.1	52.0	46.2	37.6	26.3	14.5	—	15.2
South Bend - - - - -	106.2	86.6	79.3	67.2	61.4	52.8	41.5	29.7	15.2	—



# TABLE OF DISTANCES

	South Bend	Mishawaka	Osceola	Goshen	Benton	Ligonier	Wawaka	Kendallville	Waterloo	Butler	Edgerton	Bryan	Stryker	Archbold	Wauseon	Delta	Swanton	Toledo
South Bend																		
Mishawaka	4.5																	
Osceola	4.5	5.7																
Goshen	10.2	5.7	10.2															
Benton	24.8	20.3	14.6	24.8	32.1	42.8	49.1	61.8	76.8	84.5	91.7	103.4	112.1	119.3	129.7	140.6	146.0	173.4
Ligonier	32.1	27.6	20.3	20.3	27.6	38.3	44.6	57.3	72.3	80.0	87.2	98.9	107.6	114.8	125.2	136.1	141.5	168.9
Wawaka	42.8	38.3	32.6	24.3	17.0	6.3	6.3	12.7	27.7	22.7	14.9	26.6	35.3	42.5	52.9	63.8	69.2	96.6
Kendallville	49.1	44.6	38.9	37.0	29.7	24.3	24.3	37.0	52.0	59.7	66.9	78.6	87.3	94.5	104.9	115.8	121.2	148.6
Waterloo	61.8	57.3	51.6	51.6	44.7	34.0	35.4	50.3	7.7	7.2	7.2	11.7	20.4	27.6	38.0	48.9	54.3	81.7
Butler	76.8	72.3	66.6	52.0	52.4	41.7	42.6	55.0	15.0	14.9	11.7	8.7	7.2	10.4	21.3	26.7	32.8	54.1
Edgerton	84.5	80.0	74.3	59.7	59.6	48.9	42.6	54.3	22.7	7.2	7.2	11.7	20.4	27.6	38.0	48.9	54.3	81.7
Bryan	91.7	87.2	81.5	66.9	60.6	54.3	42.6	54.3	14.9	7.2	7.2	11.7	20.4	27.6	38.0	48.9	54.3	81.7
Stryker	103.4	98.9	93.2	78.6	71.3	60.6	54.3	54.3	26.6	18.9	11.7	8.7	7.2	10.4	21.3	26.7	32.8	54.1
Archbold	112.1	107.6	101.9	87.3	80.0	69.3	63.0	50.3	35.3	27.6	20.4	15.9	7.2	10.4	21.3	26.7	32.8	54.1
Wauseon	119.3	114.8	109.1	94.5	87.2	76.5	70.2	57.5	42.5	34.8	27.6	20.4	15.9	10.4	21.3	26.7	32.8	54.1
Delta	129.7	125.2	119.5	104.9	97.6	86.9	80.6	67.9	52.9	45.2	38.0	37.2	28.5	17.6	10.9	5.4	5.4	27.4
Swanton	140.6	136.1	130.4	115.8	108.5	97.8	91.5	78.8	67.9	56.1	48.9	37.2	28.5	17.6	10.9	5.4	5.4	27.4
Toledo	146.0	141.5	135.8	121.2	113.9	103.2	96.9	84.2	72.3	61.5	54.3	42.6	33.9	26.7	16.3	5.4	5.4	27.4

# TABLE OF DISTANCES

	Toledo	Genoa	Woodville	Fremont	Clyde	Bellview	Monroeville	Norwalk	Townsend	Wakeman	Kipton	Oberlin	Elyria	Ridgeville	Dover	Cleveland
Toledo	14.1	14.1	19.4	33.3	42.3	49.9	58.4	63.5	70.2	74.7	82.5	88.4	97.8	102.6	109.7	123.7
Genoa	19.4	<b>P</b> 5.3	5.3	19.2	28.2	35.8	44.3	49.4	56.1	60.6	68.4	74.3	83.7	88.5	95.6	109.6
Woodville	33.3	<b>H</b> 13.9	13.9	<b>O</b> 9.0	22.9	30.5	39.0	44.1	50.8	55.3	63.1	69.0	78.4	83.2	90.3	104.3
Fremont	42.3	28.2	13.9	<b>O</b> 9.0	9.0	16.6	25.1	30.2	36.9	41.4	49.2	55.1	64.5	69.3	76.4	90.4
Clyde	49.9	35.8	30.5	16.6	<b>T</b> 7.6	<b>O</b> 7.6	16.1	21.2	27.9	32.4	40.2	46.1	55.5	60.3	67.4	81.4
Bellview	58.4	44.3	39.0	25.1	16.1	8.5	5.1	13.6	20.3	24.8	32.6	38.5	47.9	52.7	59.8	73.8
Monroeville	63.5	49.4	44.1	30.2	21.2	8.5	5.1	13.6	20.3	24.8	32.6	38.5	47.9	52.7	59.8	73.8
Norwalk	70.2	56.1	50.8	36.9	27.9	20.3	11.8	<b>A</b> 6.7	<b>U</b> 4.5	4.5	12.3	18.2	27.6	32.4	39.5	53.5
Townsend	74.7	60.6	55.3	41.4	32.4	24.8	16.3	11.2	6.7	4.5	7.8	13.7	23.1	27.9	35.0	49.0
Wakeman	82.5	68.4	63.1	49.2	40.2	32.6	24.1	19.0	12.3	7.8	<b>O</b> 7.8	13.7	23.1	27.9	35.0	49.0
Kipton	88.4	74.3	69.0	55.1	46.1	38.5	30.0	24.9	18.2	13.7	7.8	5.9	15.3	20.1	27.2	41.2
Oberlin	97.8	83.7	78.4	64.5	55.5	47.9	39.4	34.3	27.6	23.1	15.3	9.4	<b>M</b> 9.4	14.2	21.3	35.0
Elyria	102.6	88.5	83.2	69.3	60.3	52.7	44.2	39.1	32.4	27.9	20.1	14.2	9.4	<b>A</b> 4.8	7.1	21.1
Ridgeville	109.7	95.6	90.3	76.4	67.4	59.8	51.3	46.2	39.5	35.0	27.2	21.3	11.9	7.1	<b>P</b> 7.1	14.0
Dover	123.7	109.6	104.3	90.4	81.4	73.8	65.3	60.2	53.5	49.0	41.2	35.0	25.9	21.1	14.0	<b>S</b> 14.0



# TABLE OF DISTANCES

	Cleveland	Willoughby	Mentor	Painesville	Geneva	Ashtabula	Conneaut	E. Springfield	Girard	Fairview	Erie	Buffalo
Cleveland												
Willoughby	18.8											
Mentor	23.5	4.7										
Painesville	29.7	10.9	6.2									
Geneva	47.5	28.7	24.0	17.8								
Ashtabula	58.0	39.2	34.5	28.3	10.5							
Conneaut	71.8	53.0	48.3	42.1	24.3	13.8						
E. Springfield	80.4	61.6	56.9	50.7	42.1	22.4	8.6					
Girard	85.9	67.1	62.4	56.2	42.7	27.9	14.1	5.5				
Fairview	90.2	71.4	66.7	60.5	54.6	32.2	18.4	9.8	4.3			
Erie	102.1	83.3	78.6	72.4	54.6	44.1	30.3	21.7	16.2	11.9		
Buffalo	197.2	178.4	173.7	167.5	149.7	139.2	125.4	116.8	111.3	107.0	95.1	

# TABLE OF DISTANCES

	Cleveland	Erie	Wesleyville	Harbour Creek	North East	Ripley	Westfield	Portland	Brocton	Fredonia	Sheridan	Silver Creek	Irving	Buffalo
Cleveland														
Erie	102.1		106.2	110.0	117.2	126.1	133.1	140.3	141.9	148.8	154.7	160.9	164.3	197.2
Wesleyville	106.2	4.1		7.9	15.1	24.0	31.0	38.2	39.8	46.7	52.6	58.8	62.2	95.1
Harbour Creek	110.0	7.9	3.8		11.0	16.1	23.1	30.3	31.9	38.8	44.7	50.9	54.3	87.2
North East	117.2	15.1	7.2	7.2		8.9	15.9	23.1	24.7	31.6	37.5	43.7	47.1	80.0
Ripley	126.1	24.0	16.1	8.9	16.1		7.0	14.2	15.8	22.7	28.6	34.8	38.2	71.1
Westfield	133.1	31.0	26.9	15.9	7.0	7.0		7.2	8.8	15.7	21.6	27.8	31.2	64.1
Portland	140.3	38.2	34.1	23.1	14.2	7.2	7.2		1.6	8.5	14.4	20.6	24.0	56.9
Brocton	141.9	39.8	35.7	31.9	24.7	15.8	8.8	1.6		6.9	12.8	19.0	22.4	55.3
Fredonia	148.8	46.7	42.6	38.8	31.6	22.7	15.7	8.5	6.9		5.9	12.1	15.5	48.4
Sheridan	154.7	52.6	48.5	44.7	37.5	28.6	21.6	14.4	12.8	5.9		6.2	9.6	42.5
Silver Creek	160.9	58.8	54.7	50.9	43.7	34.8	27.8	20.6	19.0	12.1	6.2		3.4	36.3
Irving	164.3	62.2	58.1	54.3	47.1	38.2	31.2	24.0	22.4	15.5	9.6	3.4		32.9
Buffalo	197.2	95.1	91.0	87.2	80.0	71.1	64.1	56.9	55.3	48.4	42.5	36.3	32.9	



# TABLE OF DISTANCES

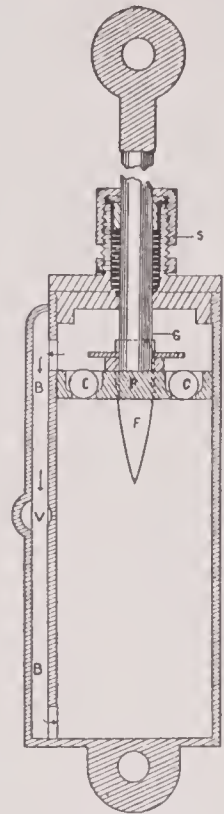
	Buffalo	Batavia	Bergen	Churchville	Rochester	Pittsford	Macedon	Palmyra	Phelps	Auburn	Elbridge	Camillius	Syracuse	Albany
Buffalo														
Batavia	39.6		55.6	59.0	73.4	80.6	92.0	97.2	111.7	138.9	149.6	156.6	165.5	318.0
Bergen	55.6	16.0		19.4	33.8	41.0	52.4	57.6	72.1	99.3	110.0	117.0	125.9	278.4
Churchville	59.0	19.4	3.4		14.4	21.6	33.0	38.2	52.7	79.9	90.6	97.6	106.5	259.0
Rochester	73.4	33.8	17.8	3.4		7.2	18.6	23.8	38.3	65.5	76.2	83.2	92.1	244.6
Pittsford	80.6	41.0	25.0	19.4	14.4		11.4	16.6	31.1	58.3	69.0	76.0	84.9	237.4
Macedon	92.0	52.4	36.4	21.6	7.2	11.4		5.2	19.7	46.9	57.6	64.6	73.5	226.0
Palmyra	97.2	57.6	41.6	38.2	23.8	16.6	5.2		14.5	41.7	52.4	59.4	68.3	220.8
Phelps	111.7	72.1	56.1	52.7	38.3	31.1	19.7	14.5		27.2	37.9	44.9	53.8	206.3
Auburn	138.9	99.3	83.3	79.9	65.5	58.3	46.9	41.7	27.2		10.7	17.7	26.6	179.1
Elbridge	149.6	110.0	94.0	90.6	76.2	69.0	57.6	52.4	37.9	10.7		7.0	15.9	168.4
Camillius	156.6	117.0	101.0	97.6	83.2	76.0	64.6	59.4	44.9	17.7	7.0		8.9	161.4
Syracuse	165.5	125.9	109.9	106.5	92.1	84.9	73.5	68.3	53.8	26.6	15.9	8.9		152.5
Albany	318.0	278.4	262.4	259.0	244.6	237.4	226.0	220.8	206.3	179.1	168.4	161.4	152.5	

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# TABLE OF DISTANCES

	Buffalo	Syracuse	Fayetteville	Chittenango	Canastota	Oneida Castle	Kirkland	New Hartford	Utica	Herkimer	Little Falls	St. Johnsville	Fonda	Amsterdam	Schenectady	Albany
Buffalo	<b>P</b> 165.5	165.5	172.8	180.8	187.5	193.2	207.0	211.8	215.3	231.4	238.4	256.3	276.7	287.4	303.0	318.0
Syracuse		<b>H</b> 7.3	7.3	15.3	22.0	27.7	41.5	46.3	49.8	65.9	72.9	90.8	111.2	121.9	137.5	152.5
Fayetteville			<b>O</b> 8.0	8.0	14.7	22.4	36.2	39.0	42.5	58.6	65.6	83.5	103.9	114.6	130.2	145.2
Chittenango				<b>T</b> 6.7	6.7	12.4	26.2	31.0	34.5	50.6	57.6	75.5	95.9	106.6	122.2	137.2
Canastota					<b>O</b> 5.7	5.7	19.5	24.3	27.8	43.9	50.9	68.8	89.2	99.9	115.5	130.5
Oneida Castle						13.8	18.6	22.1	24.4	38.2	45.2	63.1	83.5	94.2	109.8	124.8
Kirkland					<b>A</b> 4.8	4.8	8.3	19.6	23.1	38.2	45.2	63.1	83.5	94.2	109.8	124.8
New Hartford						<b>U</b> 3.5	3.5	19.6	23.1	38.2	45.2	63.1	83.5	94.2	109.8	124.8
Utica							<b>T</b> 3.5	3.5	16.1	24.4	31.4	49.3	69.7	80.4	96.0	111.0
Herkimer								<b>O</b> 7.0	7.0	24.9	31.4	49.3	69.7	80.4	96.0	111.0
Little Falls									<b>O</b> 7.0	24.9	31.4	49.3	69.7	80.4	96.0	111.0
St. Johnsville										<b>O</b> 7.0	24.9	31.4	49.3	69.7	80.4	96.0
Fonda											<b>M</b> 20.4	20.4	10.7	15.6	30.6	15.0
Amsterdam												<b>A</b> 20.4	10.7	15.6	30.6	15.0
Schenectady													<b>P</b> 15.6	30.6	15.0	15.0
Albany															<b>S</b> 15.0	15.0

# WINESTOCK SPARK PLUGS

(QUICK DETACHABLE)

## DON'T SKIP

Only quick detachable plug containing both terminals in the detachable member.

Absolutely will not leak compression

Positively will not work loose.



PRICE

\$1.75

“Absolutely  
Guaranteed”

Gives the hottest spark of any plug made.

Non-breakable insulation.

Adjustable spark gap—once adjusted, always adjusted.

---

You can't imagine the convenience of a detachable plug until you have used one, it gives you a chance to examine your spark without using a wrench.

FOR SALE BY ALL FIRST-CLASS DEALERS

**KNAPP-GREENWOOD COMPANY**

1000 Boylston Street - - BOSTON, MASS.



# TABLE OF DISTANCES

	Albany	Rensselaer	Schodack Center	Kinderhook	Stuyvesant Falls	Hudson	Blue Store	Upper Red Hook	Red Hook	Rhinebeck	Staatsburg	Hyde Park	Poughkeepsie	New York City
Albany														
Rensselaer	1.0		7.3	20.9	24.5	33.5	43.0	49.8	52.5	58.2	64.2	68.3	74.4	149.8
Schodack Center	7.3	6.3		19.9	23.5	32.5	42.0	48.8	51.5	57.2	63.2	67.3	73.4	148.8
Kinderhook	20.9	13.6	13.6		3.6	12.6	22.1	28.9	31.6	37.3	43.3	47.4	53.5	128.9
Stuyvesant Falls	24.5	17.2	13.6	3.6		9.0	18.5	25.3	28.0	33.7	39.7	43.8	49.9	125.3
Hudson	33.5	26.2	26.2	12.6	9.0		9.5	16.3	19.0	24.7	30.7	34.8	40.9	116.3
Blue Store	43.0	35.7	22.1	22.1	18.5	9.5		6.8	9.5	15.2	21.2	25.3	31.4	106.8
Upper Red Hook	49.8	42.5	28.9	16.3	25.3	16.3	6.8		2.7	8.4	14.4	18.5	24.6	100.0
Red Hook	52.5	45.2	31.6	28.0	19.0	9.5	2.7	5.7		6.0	11.7	15.8	21.9	97.3
Rhinebeck	58.2	50.9	37.3	33.7	24.7	15.2	8.4	5.7	6.0		10.1	16.2	91.6	
Staatsburg	64.2	56.9	43.3	39.7	30.7	21.2	14.4	11.7	6.0	4.1		10.2	85.6	
Hyde Park	68.3	61.0	47.4	43.8	34.8	25.3	18.5	15.8	10.1	4.1	6.1		81.5	
Poughkeepsie	74.4	67.1	53.5	49.9	40.9	31.4	24.6	21.9	16.2	10.2	6.1		75.4	
New York City	149.8	142.5	128.9	116.3	106.8	100.0	97.3	91.6	85.6	81.5	75.4			

# DETROIT and SOUTH BEND OR ANYWHERE

An *abundance* of *enjoyable features* along the road, but an *over abundance* of *menacing features on the road*. Chances are a *thousand* to *one* in favor of the *menacing features* winning out—unless you squelch them.

*You* know that a succession of punctures and blow-outs will spoil the effect of *any trip* and ruffle the temper of a Saint—besides—tearing *big* holes in the pocket-book.

The *best* move *you* can make, *before* taking *any* trip—a block or a thousand miles—is to have your tires treated with

## **KEMIZITE**

### ***It Heals Punctures***

The only absolute=harmless=permanent puncture healer

#### ***Guaranteed "Money Back" Basis***

Clean — odorless  
Not a cement  
Not gummy  
Not sticky  
Not a filler

Only small quantity needed  
Does not reduce resiliency  
Does not interfere with vulcanization  
Eliminates 75% of blow-outs  
Increases mileage

***Proportion — 5% Kemizite — 95% Air***

*Thousands* of auto owners are using *KEMIZITE* with *absolute satisfaction*. More down right enjoyment than they ever experienced with tires before, and at greatly *decreased* expense.

*This* is the move for *you* to make. No matter what you *remember* of the *past*—*do this now*. Investigate *KEMIZITE*—satisfy yourself. Remember a "money back" guarantee goes with it.

**AUTO TIRE=SECURITY COMPANY**

**1231 Michigan Ave.      =      =      =      =      Chicago**



# TABLE OF DISTANCES

	New York City	Yonkers	Hastings	Dobbs Ferry	Irvington	Tarrytown	Ossining	Croton	Peekskill	Cold Spring	Fishkill Village	WappingersFalls	Poughkeepsie	Albany
New York City														
Yonkers	14.2													
Hastings	18.7	4.5												
Dobbs Ferry	20.2	6.0	1.5											
Irvington	21.4	7.2	2.7	1.2										
Tarrytown	24.5	10.3	5.8	4.3	3.1									
Ossining	30.6	16.4	11.9	10.4	9.2	6.1								
Croton	34.3	20.1	15.6	14.1	12.9	9.8	3.7							
Peekskill	42.1	27.9	23.4	21.9	20.7	17.6	11.5	7.8						
Cold Spring	53.5	39.3	34.8	33.3	32.1	29.0	22.9	19.2	11.4					
Fishkill Village	62.7	48.5	44.0	42.5	41.3	38.2	32.1	28.4	20.6	9.2				
WappingersFalls	67.8	53.6	49.1	47.6	46.4	43.3	37.2	33.5	25.7	14.3	5.1			
Poughkeepsie	75.4	61.2	56.7	55.2	54.0	50.9	44.8	41.1	33.3	21.9	12.7	7.6		
Albany	149.8	135.6	131.1	129.6	128.4	125.3	119.2	115.5	107.7	96.3	87.1	82.0	74.4	

# Table of Mileage

				MILES
South Bend	to	Lakeville	.	10.5
"	"	Lapaz	.	16.3
"	"	Plymouth	.	24.5
"	"	Argos	.	32.6
"	"	Rochester	.	44.5
"	"	Perrysburg	.	58.1
"	"	Mexico	.	63.9
"	"	Peru	.	69.8
"	"	Bunker Hill	.	78.7
"	"	Miami	.	82.5
"	"	Kokomo	.	93.0
"	"	Sharpville	.	102.8
"	"	Tipton	.	112.5
"	"	Atlanta	.	118.4
"	"	Arcadia	.	122.0
"	"	Cicero	.	125.2
"	"	Noblesville	.	131.5
"	"	Indianapolis	.	155.2
Indianapolis	to	Noblesville	.	23.7
"	"	Cicero	.	30.0
"	"	Arcadia	.	33.2
"	"	Atlanta	.	36.8
"	"	Tipton	.	42.7
"	"	Sharpville	.	52.4
"	"	Kokomo	.	62.2
"	"	Miami	.	72.7
"	"	Bunker Hill	.	76.5
"	"	Peru	.	85.4
"	"	Mexico	.	91.3
"	"	Perrysburg	.	97.1
"	"	Rochester	.	110.7
"	"	Argos	.	122.6
"	"	Plymouth	.	130.7
"	"	Lapaz	.	138.9
"	"	Lakeville	.	144.7
"	"	South Bend	.	155.2



# Table of Distances

---

	MILES
South Bend to Lakeville . . .	10.5
Lakeville to Lapaz . . . . .	5.8
Lapaz to Plymouth . . . . .	8.2
Plymouth to Argos . . . . .	8.1
Argos to Rochester . . . . .	11.9
Rochester to Perrysburg . . . .	13.6
Perrysburg to Mexico . . . . .	5.8
Mexico to Peru . . . . .	5.9
Peru to Bunker Hill . . . . .	8.9
Bunker Hill to Miami . . . . .	3.8
Miami to Kokomo . . . . .	10.5
Kokomo to Sharpsville . . . . .	9.8
Sharpsville to Tipton . . . . .	9.7
Tipton to Atlanta . . . . .	5.9
Atlanta to Arcadia . . . . .	3.6
Arcadia to Cicero . . . . .	3.2
Cicero to Noblesville . . . . .	6.3
Noblesville to Indianapolis . .	23.7

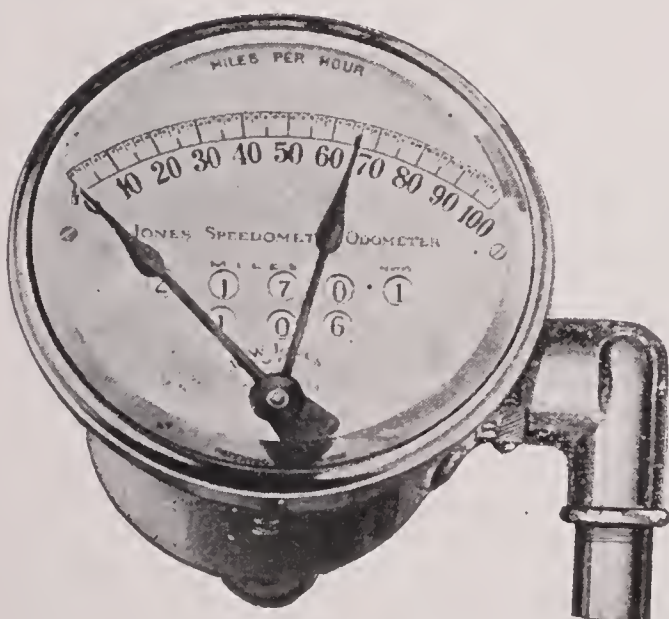
# TURN TO RIGHT AND STOP



If your car is not equipped with a reliable speed-indicator. No use touring without the famous

## JONES SPEEDOMETER

The BEST speed-indicator on the market. The PIONEER. The Winner of the R. A. C. Gold Medal for ACCURACY. The Jones is indispensable when touring because—it is absolutely reliable and dependable. It is used by the majority of motorists the world over. It is part equipment of practically every car on tour. See that you have a Jones on your dash. By means of the Odometer you can compute the distance cited on the maps—and you KNOW your speed at all times under all conditions.



*Write for folder containing illustrations and prices of all models.*

Jones Speedometer Dept.  
United Manufacturers, Inc.

Broadway and 76th Street

New York



# Table of Distances

## TOLEDO—DETROIT

	MILES
Toledo to Erie . . . . .	11.1
“ “ Monroe . . . . .	20.9
“ “ Trenton . . . . .	41.7
“ “ Wyandotte . . . . .	46.2
“ “ Detroit . . . . .	57.0
Detroit to Wyandotte . . . . .	10.8
“ “ Trenton . . . . .	15.3
“ “ Monroe . . . . .	36.1
“ “ Erie . . . . .	45.9
“ “ Toledo . . . . .	57.0
Toledo to Erie . . . . .	11.1
Erie to Monroe . . . . .	9.8
Monroe to Trenton . . . . .	20.8
Trenton to Wyandotte . . . . .	4.5
Wyandotte to Detroit . . . . .	10.8

# Table of Mileage

ALBANY—SARATOGA SPRINGS

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---

	MILES
Albany to Cohoes . . . . .	12.2
“ “ Waterford . . . . .	14.2
“ “ Mechanicsville . . . . .	22.6
“ “ Maltaville . . . . .	28.6
“ “ Dunning Street . . . . .	30.8
“ “ Saratoga Springs . . . . .	38.6
Saratoga Springs to Dunning Street . . . . .	7.8
“ “ “ Maltaville . . . . .	10.0
“ “ “ Mechanicsville . . . . .	16.0
“ “ “ Waterford . . . . .	24.4
“ “ “ Cohoes . . . . .	26.4
“ “ “ Albany . . . . .	38.6

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# Table of Distances

ALBANY—SARATOGA SPRINGS

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	MILES
Albany to Cohoes . . . . .	12.2
Cohoes to Waterford . . . . .	2.0
Waterford to Mechanicsville . . . . .	8.4
Mechanicsville to Maltaville . . . . .	6.0
Maltaville to Dunning Street . . . . .	2.2
Dunning Street to Saratoga Springs . . . . .	7.8



# VIVAX STORAGE BATTERIES



6 VOLT 80 AMPERES  
SPECIALLY BUILT FOR  
LIGHTING PURPOSES

PRICE-----\$24.00

---

---

WE GUARANTEE SATISFACTION

---

---

## Why The "VIVAX" Excels

Mechanical Strength; Perfect Insulation; Compact and Clean;  
No Corrosion of Terminals; Free from Mechanical Defects, or  
Faulty Workmanship.

The "VIVAX" Battery is especially built to withstand  
the constant jar of the Automobile and may be used on the  
heaviest truck or the lightest pleasure Vehicle.

## VIVAX IGNITION BATTERIES

---

---

6 Volt 60 Amperes.....	\$20.00
6 Volt Special .....	15.00
6 Volt Junior .....	11.50



Manufactured by

## VIVAX STORAGE BATTERY CO.

2224-2234 Michigan Avenue

- CHICAGO, ILLINIOS

# Population of Towns

CHICAGO—SOUTH BEND

---

---

Chicago	.	.	.	2,049,185
Hammond	.	.	.	15,956
Highlands	.	.	.	25
Hobart	.	.	.	1,390
Wheeler	.	.	.	100
Valparaiso	.	.	.	6,280
Westville	.	.	.	468
La Porte	.	.	.	7,113
New Carlisle	.	.	.	597
South Bend	.	.	.	36,000





# Population of Towns

## TOLEDO—CLEVELAND

[illegible]



# Population of Towns

CLEVELAND—BUFFALO

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---

Cleveland, O.	.	.	.	381,768
Willoughby, O.	.	.	.	1,753
Mentor, O.	.	.	.	624
Painesville, O.	.	.	.	5,024
Geneva, O.	.	.	.	2,342
Ashtabula, O.	.	.	.	12,949
Conneaut, O.	.	.	.	7,133
West Springfield, Pa.	.	.	.	203
East Springfield, Pa.	.	.	.	591
Girard, Pa.	.	.	.	691
Fairview, Pa.	.	.	.	327
Erie, Pa.	.	.	.	52,733
Wesleyville, Pa.	.	.	.	567
Harbour Creek, Pa.	.	.	.	161
North East, Pa.	.	.	.	2,068
Ripley, N.Y.	.	.	.	810
Westfield, N.Y.	.	.	.	2,430
Portland, N.Y.	.	.	.	552
Brocton, N.Y.	.	.	.	900
Fredonia, N.Y.	.	.	.	4,127
Sheridan, N.Y.	.	.	.	100
Silver Creek, N.Y.	.	.	.	1,944
Irving, N.Y.	.	.	.	50
Buffalo, N.Y.	.	.	.	352,387

# Population of Towns

BUFFALO—SYRACUSE

---

Buffalo . . . . .	352,387
Snyder . . . . .	50
Williamsville . . . . .	905
Clarence . . . . .	670
Pembroke . . . . .	310
East Pembroke . . . . .	405
Batavia . . . . .	9,180
Byron . . . . .	342
Bergen . . . . .	624
Churchville . . . . .	505
North Chili . . . . .	101
Rochester . . . . .	162,608
Pittsford . . . . .	1,000
Egypt . . . . .	162
Macedon . . . . .	592
Palmyra . . . . .	1,937
Port Gibson . . . . .	50
Phelps . . . . .	1,306
West Junius . . . . .	29
Magee Corners . . . . .	61
Auburn . . . . .	30,345
Sennett . . . . .	403
Elbridge . . . . .	549
Camillius . . . . .	567
Syracuse . . . . .	108,374



# Population of Towns

SYRACUSE—ALBANY

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Syracuse	.	.	.	.	.	.	.	117,493
De Witt	.	.	.	.	.	.	.	2,509
Fayetteville	.	.	.	.	.	.	.	1,304
Mycenae	.	.	.	.	.	.	.	50
Chittenango	.	.	.	.	.	.	.	787
Sullivan	.	.	.	.	.	.	.	159
Canastota	.	.	.	.	.	.	.	3,030
Oneida	.	.	.	.	.	.	.	3,420
Oneida Castle	.	.	.	.	.	.	.	291
Sherill	.	.	.	.	.	.	.	230
Vernon	.	.	.	.	.	.	.	380
Kirkland	.	.	.	.	.	.	.	132
New Hartford	.	.	.	.	.	.	.	1,007
Utica	.	.	.	.	.	.	.	62,935
Deerfield	.	.	.	.	.	.	.	691
West Shuyler	.	.	.	.	.	.	.	261
East Shuyler	.	.	.	.	.	.	.	108
Frankfort	.	.	.	.	.	.	.	2,664
Ilion	.	.	.	.	.	.	.	5,138
Herkimer	.	.	.	.	.	.	.	5,555
Little Falls	.	.	.	.	.	.	.	11,122
St. Johnsville	.	.	.	.	.	.	.	1,873
Nelliston	.	.	.	.	.	.	.	634
Palatine Bridge	.	.	.	.	.	.	.	360
Fonda	.	.	.	.	.	.	.	1,145
Amsterdam	.	.	.	.	.	.	.	23,923
Scotia	.	.	.	.	.	.	.	361
Schenectady	.	.	.	.	.	.	.	58,369
Albany	.	.	.	.	.	.	.	98,370

# Population of Towns

ALBANY—NEW YORK CITY

Albany	.	.	.	.	.	.	98,370
Rensselaer	.	.	.	.	.	.	10,715
Schodack Center			.	.	.	.	102
Kinderhook	.	.	.	.	.	.	913
Stuyvesant Falls			.	.	.	.	792
Stockport	.	.	.	.	.	.	481
Stottville	.	.	.	.	.	.	1,069
Hudson	.	.	.	.	.	.	10,290
Blue Store	.	.	.	.	.	.	134
Upper Red Hook			.	.	.	.	75
Red Hook	.	.	.	.	.	.	857
Rhinebeck	.	.	.	.	.	.	1,449
Staatsburg	.	.	.	.	.	.	479
Hyde Park	.	.	.	.	.	.	2,873
Poughkeepsie	.	.	.	.	.	.	25,379
Wappingers Falls			.	.	.	.	3,504
Fishkill Village	.	.	.	.	.	.	589
Nelsonville	.	.	.	.	.	.	624
Cold Spring	.	.	.	.	.	.	2,067
Peekskill	.	.	.	.	.	.	10,562
Buchanan	.	.	.	.	.	.	75
Croton	.	.	.	.	.	.	100
Ossining	.	.	.	.	.	.	7,939
Tarrytown	.	.	.	.	.	.	4,770
Irvington	.	.	.	.	.	.	2,231
Dobbs Ferry	.	.	.	.	.	.	2,888
Hastings	.	.	.	.	.	.	2,002
Yonkers	.	.	.	.	.	.	61,716
New York City	.	.	.	.	.	.	4,014,304

# Population of Towns

ALBANY—SARATOGA SPRINGS

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Albany	.	.	.	.	98,360
Cohoes	.	.	.	.	24,183
Waterford	.	.	.	.	3,146
Mechanicsville	.	.	.	.	4,695
Maltaville	.	.	.	.	92
Dunning Street	.	.	.	.	50
Saratoga Springs	.	.	.	.	12,538



# Population of Towns

SOUTH BEND—INDIANAPOLIS

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South Bend	.	.	.	.	.	36,000
Lapaz	.	.	.	.	.	400
Plymouth	.	.	.	.	.	3,656
Argos	.	.	.	.	.	1,307
Rochester	.	.	.	.	.	3,421
Perrysburg	.	.	.	.	.	700
Mexico	.	.	.	.	.	500
Peru	.	.	.	.	.	11,648
Bunker Hill	.	.	.	.	.	568
Miami	.	.	.	.	.	390
Kokomo	.	.	.	.	.	12,019
Sharpsville	.	.	.	.	.	650
Tipton	.	.	.	.	.	3,764
Atlanta	.	.	.	.	.	1,500
Arcadia	.	.	.	.	.	1,413
Cicero	.	.	.	.	.	1,603
Noblesville	.	.	.	.	.	4,792
Indianapolis	.	.	.	.	.	219,154

ILLINOIS

INDIANA

MICHIGAN

OHIO

PENNSYLVANIA

NEW YORK

NEW JERSEY

CANADA

LAKE MICHIGAN

LAKE HURON

LAKE ERIE

LAKE ONTARIO

CHICAGO

DETROIT

CLEVELAND

BUFFALO

SYRACUSE

ALBANY

NEW YORK CITY

PHILADELPHIA

CONDENSED ROUTE OF THE PHOTO AUTO MAP

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ILLINOIS

INDIANA

MICHIGAN

OHIO

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NEW JERSEY

LAKE MICHIGAN

LAKE HURON

LAKE ERIE

LAKE ONTARIO

CHICAGO

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CLEVELAND

BUFFALO

SYRACUSE

ALBANY

NEW YORK CITY

PHILADELPHIA

CONDENSED ROUTE OF THE PHOTO AUTO MAP

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# PHOTO-AUTO MAPS



No. 1



## NEW SOUTHERN HOTEL

MICHIGAN AVENUE AND 13th STREET, CHICAGO, ILL.

STARTING POINT of Photo-Auto Maps in Chicago, Ill. is The New Southern Hotel, situated so convenient to "Automobile Row," it is really considered the very best Hotel in Chicago for automobile tourists. A more delightful place for visitors in Chicago could not be conceived. Their every convenience and comfort is studiously provided for. Splendid Cafe, Restaurant and Grill Rooms in connection. Good garage accommodations may be had one block south of Hotel.

Memo.....

.....

.....

.....

.....

No. 2



Turn LEFT and go East from Michigan Avenue on 33rd Street.  
Next turn South Park Avenue, four-tenths of a mile.

Memo .....

.....

.....

.....

No. 3



Turn RIGHT and go South to statue of Washington and  
entrance to Washington Park, two miles.



No. 4



### WASHINGTON PARK

STRAIGHT AHEAD to Park Refectory Building, five-tenths of a mile.

No. 5



### REFECTORY BUILDING ON RIGHT.

Turn LEFT, and keep right at first three drives on left. At administration buildings, with tall chimneys on left, turn right and keep ahead to extreme southeast corner of park; an amusement park adjoins on right. Turn LEFT, leave park, crossing trolley on Cottage Grove Avenue, and continue due East upon Midway Drive, pass under Illinois Central Railroad viaduct, straight ahead to Jackson Park. At red-tiled boat building ahead, upon entering park, turn right.



## Jackson Park



turn LEFT, small police box on right. At next drive on left, turn right. At red-tiled rest building on right, turn right. At drive beyond building, turn left.

emo.....

.....

.....

## Jackson Park



turn RIGHT to Jeffrey Avenue. Lagoon on left. Three large chimneys can be seen some distance ahead on left after leaving park; real estate sign on right. Keep straight South upon Jeffrey Avenue. Next photo two miles.

No. 6



Turn LEFT on 83rd Street. Do not cross trolley on South  
Chicago Avenue on right. Follow 83rd Street to Bal-  
timore Avenue at end of street. Next photo one mile.

Memo.....

.....

.....

.....

No. 7



Turn RIGHT, Baltimore Avenue. Next photo one block



No. 8



Turn RIGHT, Exchange Avenue. Next photo at 92d Street, South Chicago, one mile.

Memo.....

.....

.....

.....

No. 9



Turn LEFT, 92d Street, South Chicago. Follow trolley to bridge. Next photo six-tenths of a mile.



No. 10



Turn RIGHT, cross bridge, follow trolley to sharp corner Avenue L. Leave trolley, keep ahead on macadam, looking out for high cross walks. Cross railroad at East Side Station on left. Turn left one short block, then right, turning left with trolley upon Indianapolis Avenue. Next photo one and two-tenths miles.

Memo .....

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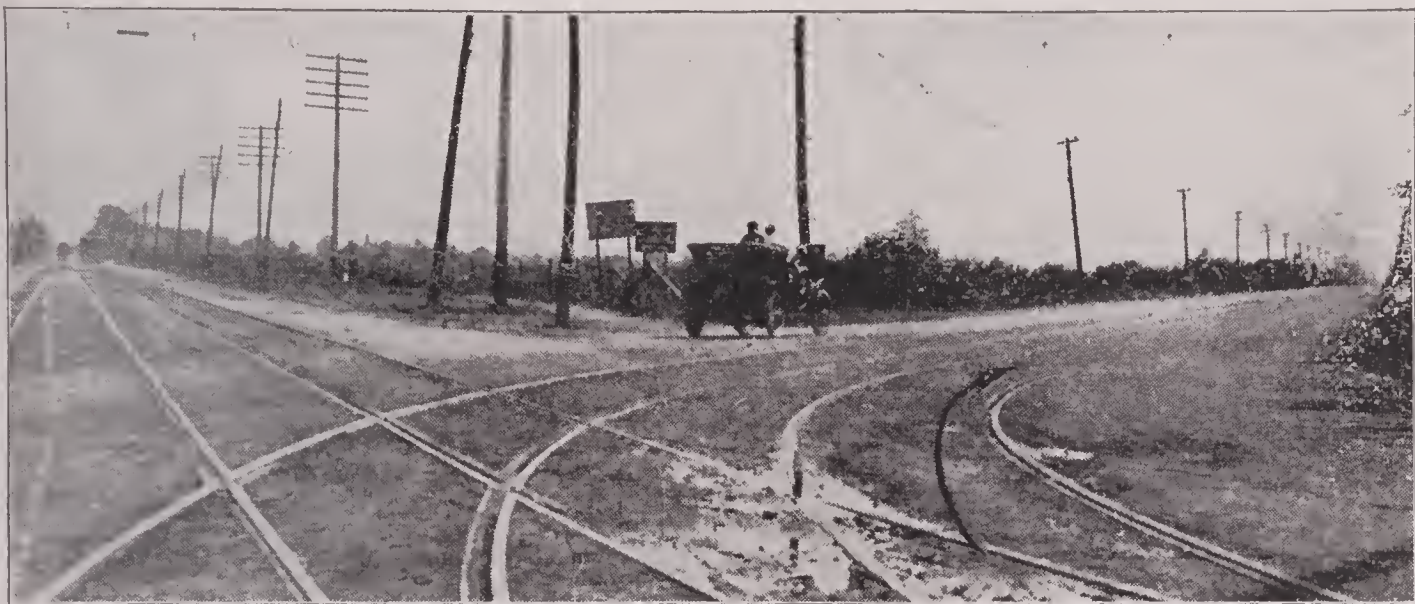
No. 11



Turn LEFT and go South-East. Ewing Avenue and Indianapolis Avenue. Next turn two and one-tenths miles.



No. 12



Turn RIGHT and go South. Next turn at car barns, three and nine-tenths miles.

Memo .....

No. 13



Turn LEFT, East. Car barns on right, go one block East and turn to right, South, follow street car tracks to Sibley Street, Hammond, one and one-tenth miles. The Majestic Hotel Cafe is on Homan Avenue, one hundred feet north of Sibley Street, on left hand side of street. This cafe is open day and night and offers to automobile parties the parlor and toilet facilities of the Majestic Hotel which is first-class in every particular.



No. 14



HAMMOND

Turn LEFT, East. Turn left from Homan Avenue to Sibley Street. Half a block before turn, on the left side of the street is the Majestic Hotel and Cafe, the best in Hammond. Next turn one mile.

Memo .....

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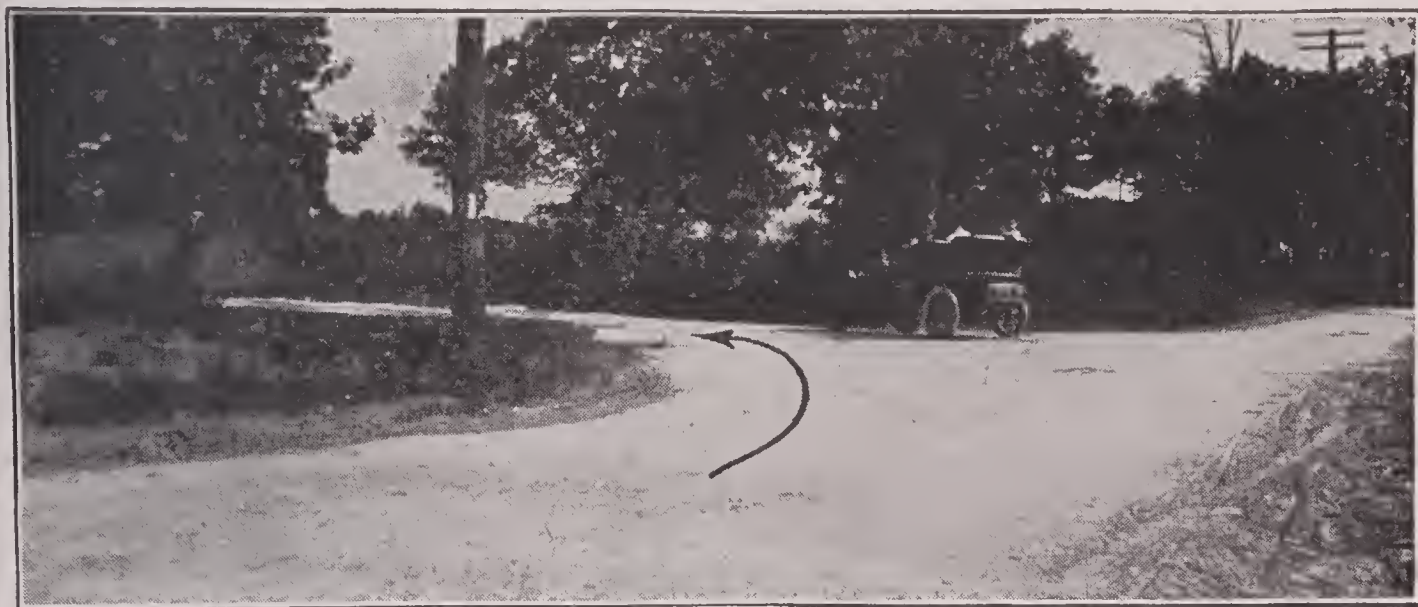
No. 15



Turn RIGHT, South, Lafayette School on left. Next turn one and three-tenths miles.



No. 16



Turn LEFT, East. All four corners vacant. Next turn five-tenths of a mile at ice house.

Memo .....

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No. 17



Turn RIGHT, South. Saloon on left at turn. Next turn two and three-tenths miles.



No. 18



Turn LEFT, East. Next turn at Highlands, two and three tenths miles. Road to right and south leads to Crow Point and Cedar Lake.

Memo .....

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No. 19



HIGHLANDS

Turn RIGHT, South, then East. Go one hundred feet south do not cross tracks, turn east passing factory and grocery. Next turn seven and nine-tenths miles.

No. 20



Turn LEFT, East. Follow wires. Next photo Hobart, three and two-tenths miles.

memo .....

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No. 21



HOBART

Turn LEFT, South. Next turn two-tenths of a mile.



No. 22



Turn LEFT, North-East. After passing R. R. depot, turn t  
right to street's end, then to left to street's end, then t  
right. Next photo three and six-tenths miles.

Memo .....

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No. 23



Turn RIGHT, South. Large barn on left. Follow wire  
Next turn one mile.

No. 24



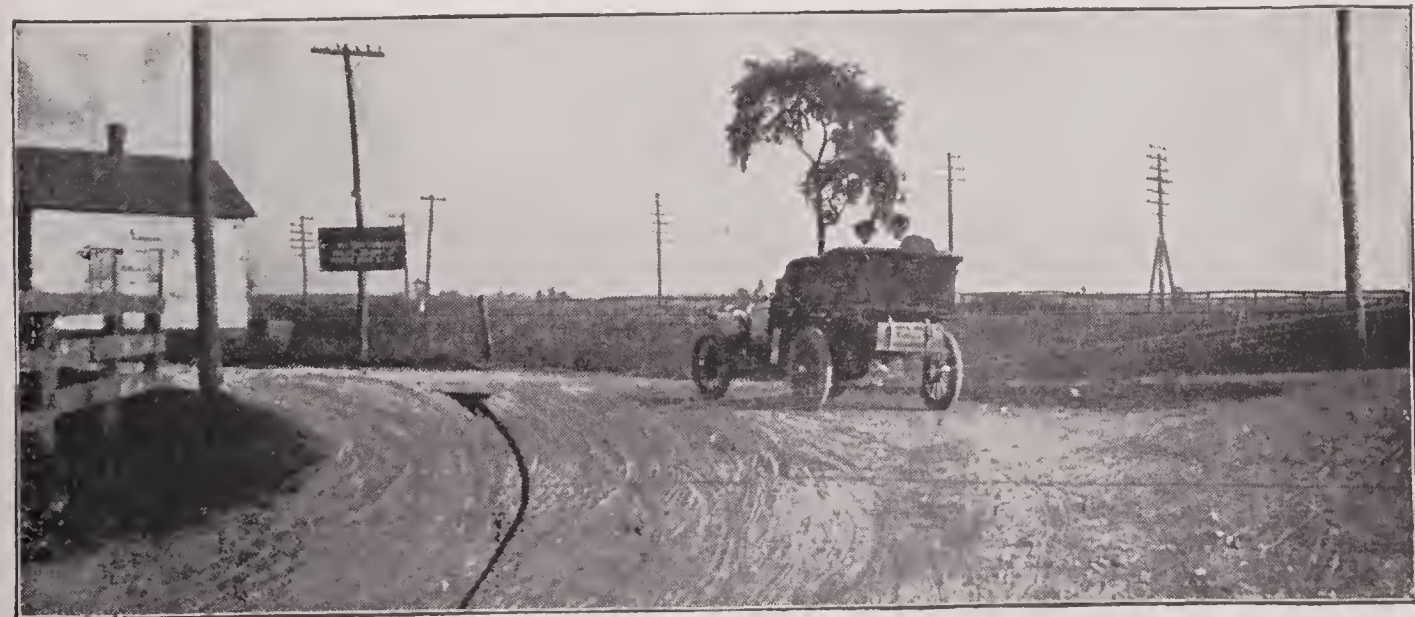
Make "S" turn and continue going south. Follow wires. Next photo Wheeler, six-tenths of a mile.

Memo .....

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No. 25



WHEELER

Turn LEFT, South-East. Next turn five-tenths of a mile. Reduce speed and avoid trouble with authorities.



No. 26



Turn RIGHT, leaving Wheeler on "S" turn, continuing East  
Next photo four and seven-tenths miles at end of road.

Memo .....

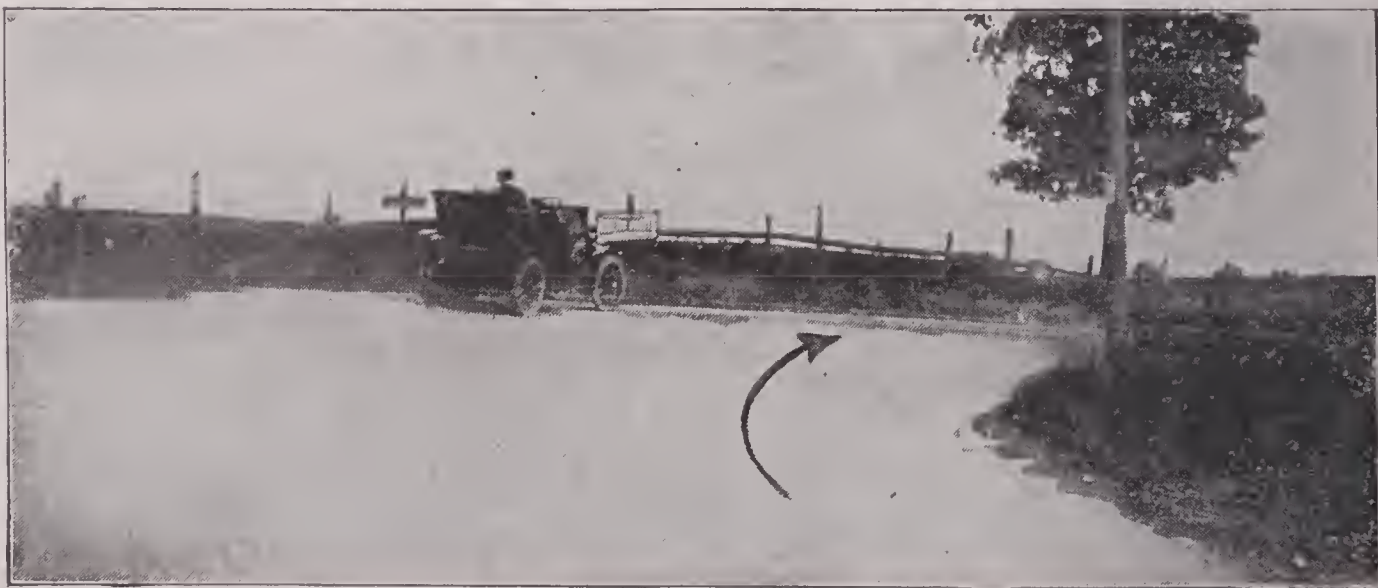
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No. 27



Turn RIGHT, South. Red barns and wind mill on right  
Next turn two and three-tenths miles at Valparaiso.

No. 28



VALPARAISO

Turn RIGHT, East, Main Street, keep straight ahead through town. Next photo top of hill, one and two-tenths miles. HOTEL LAFAYETTE six tenths of a mile, on right side of street, one block this side of Court House. This hotel is the best between Chicago and South Bend. Special meal arrangements can be made by long distance telephone 991. One block before hotel is reached is Zimmerman's garage—expert machinists always ready for service. After hours ring bell on side office door.

No. 29



Turn RIGHT, South, go one hundred and fifty feet to next street, then turn left and east. Next turn two and six-tenths miles.



No. 30



Turn LEFT, North-East, cross roads. Next turn one and three-tenths miles, after crossing small bridge.

Memo .....

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No. 31



Turn RIGHT, East, after crossing small bridge. Next photo at foot of sand hill, seven-tenths of a mile.

No. 32



STRAIGHT AHEAD, East. Next photo two-tenths of a mile at top of hill.

Memo .....

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No. 33



Take LEFT road. Next photo two miles.



No. 34



Take RIGHT hand road, North-East. Next photo leaving Westville three miles.

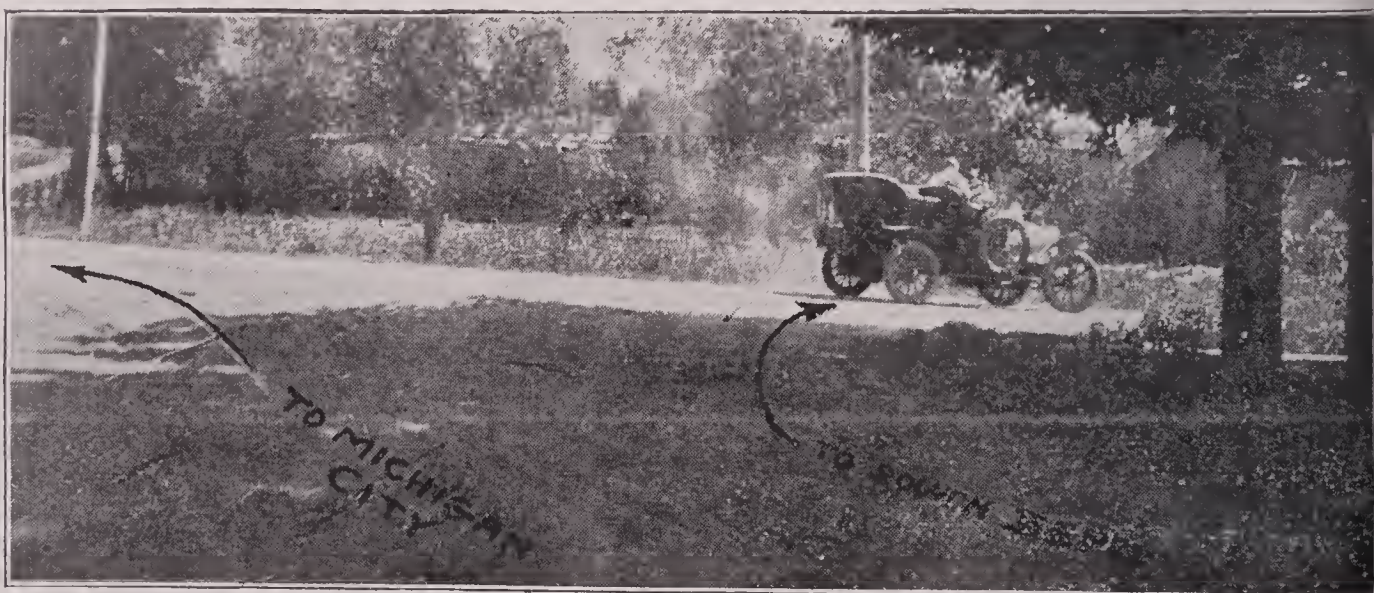
Memo .....

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No. 35



WESTVILLE

Turn RIGHT, South. Go one hundred and fifty feet and turn left and east. Next photo eight miles. The north and south road at photo 35 leads direct to Michigan City.



No. 36



STRAIGHT AHEAD, left road. Follow poles with most wires. Next photo one and three-tenths miles.

emo .....  
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No. 37



Turn LEFT, North. Follow the wires. Next photo nine-tenths of a mile.



No. 38



Turn RIGHT, East. Small lake on left, half a block distant. Large hole on left after turning. Go two blocks then turn left and straight ahead to Main Street. Go straight through town, passing Court House. Next photo three and two tenths miles. For Automobile Maintenance Garage turn right one block beyond Court House and go one half block. This garage is well equipped and is open day and night.

Memo .....

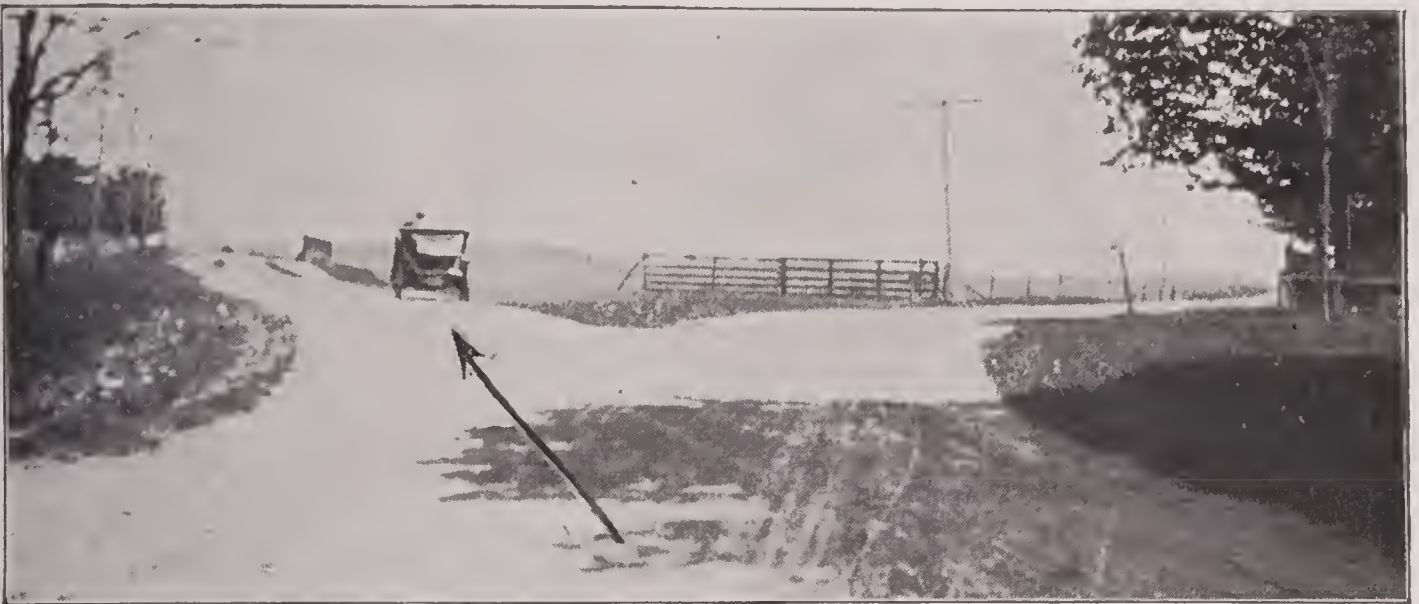
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No. 39



Take LEFT hand road. Follow poles with most wires. Next photo four and five-tenths miles.

No. 40



STRAIGHT AHEAD, North-East. Next photo South Bend twenty and five-tenths miles. Before coming to South Bend New Carlisle is passed, five and two-tenths miles. Follow the wires.

Memo .....

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No. 41



SOUTH BEND

Turn RIGHT, South. Turn from La Salle Street into Main Street, go two blocks to Hotel Oliver.



No. 42



## HOTEL OLIVER, SOUTH BEND, IND.

This hotel is one of the best encountered between Chicago and New York. Every facility possible is provided for the comfort of its guests. Auto parties given special attention. Next photo (No. 43) at this corner.

Memo .....

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## THE TWENTIETH CENTURY GARAGE

SOUTH BEND, IND.

located one block west of Hotel Oliver, and half a block south on right-hand side of Lafayette Street. This garage is equipped with a first-class machine shop and special attention is given to tourists.

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No. 43



Turn LEFT from Main Street into Washington Street at Hotel Oliver. Next photo two blocks.



No. 44



Turn RIGHT and South-East from Washington Street into Vistula Avenue. Mishawaka four and five-tenths miles. Next photo seven and two-tenths miles.

Memo .....

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No. 45



Take RIGHT road at fork. Follow wires. Next photo in Osceola, two and nine-tenths miles.

No. 46 .



### OSCEOLA

Turn RIGHT at end of road and cross tracks; then turn left and continue East. Dunlap eight and six-tenths miles. Next photo in Goshen, thirteen and seven-tenths miles.

Memo .....

No. 47



### GOSHEN

Turn LEFT and cross bridge. Next photo at Main Street, four-tenths of a mile.



No. 48



GOSHEN

Turn RIGHT into Main Street. Follow the car tracks. Goshen Automobile Company garage one-half block—the best in Goshen for supplies and repairs. The Hascal Hotel one block—this is the best hotel in Goshen. Next photo five-tenths of a mile.

Memo .....

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No. 49



Turn LEFT and East from Main Street into Madison Street. Next photo at end of road, six-tenths of a mile.

No. 50



Turn RIGHT and South at end of road. Next photo five miles.

Memo .....

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No. 51



Turn LEFT and South-East. Follow wires. Benton one and six-tenths miles. Next photo five and eight-tenths miles.



No. 52



Turn RIGHT and South. Follow wires. Next photo six-tenths of a mile.

Memo .....

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No. 53



Turn LEFT and East. School on left of turn. Follow most wires. Next photo in Ligonier, five and nine-tenths miles

No. 54



### LIGONIER

Turn RIGHT and South into Main Street. Next photo at fountain, three-tenths of a mile.

emo .....

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No. 55



Take LEFT street at fountain. Next photo one-tenth of a mile.



No. 56



Turn LEFT from Main Street. Next photo at end of road one and two-tenths miles.

Memo .....

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No. 57



Turn RIGHT and South at end of road. Follow wires. Next photo two-tenths of a mile.

No. 58



Turn LEFT and East. Follow wires. Next photo at end of road, three and two-tenths miles.

emo

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No. 59



Turn RIGHT and South at end of road. Next photo in Wawaka, one and eight-tenths miles.



No. 60



WAWAKA

Turn RIGHT and South. Red brick church on left. Follow wires. Next photo seven-tenths of a mile.

Memo .....

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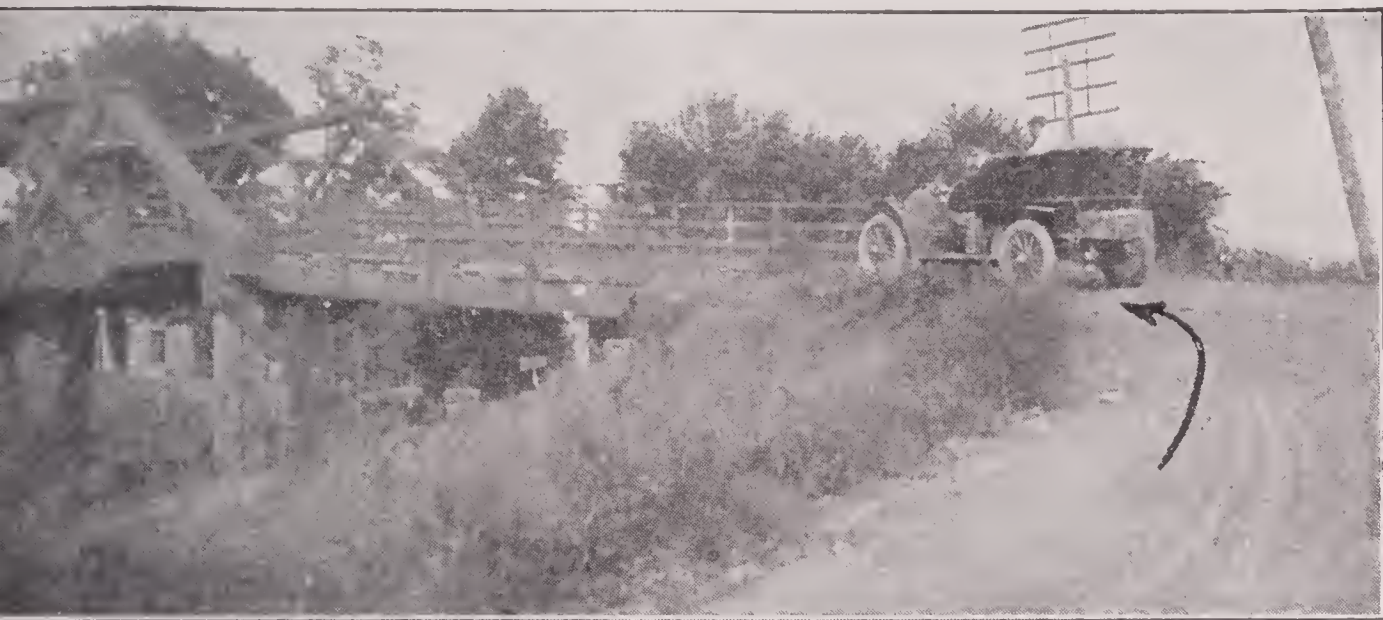
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No. 61



Turn LEFT and East. Follow wires. Next photo at end of road, four and one-tenth miles.

No. 62



Turn LEFT at end of road and cross bridge; then turn right and continue East. Brimfield three-tenths of a mile. Next photo six and one-tenth miles.

emo .....

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No. 63



Continue straight EAST on right-hand road. Leave wires. Next photo one and two-tenths miles.



No. 64



Turn RIGHT into Kendallville. Next photo six-tenths a mile.

Memo .....

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No. 65



## KENDALLVILLE

Turn LEFT from Main Street into Mitchell Street. photo at end of street, six-tenths of a mile.



No. 66



Turn LEFT and North at end of street. Next photo two-tenths of a mile.

emo .....

No. 67



Turn RIGHT and East. Next photo three and three-tenths miles.



No. 68



Turn RIGHT and South. Follow wires. Sedan two miles.  
Next photo nine and four-tenths miles.

Memo .....

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No. 69



Turn RIGHT and South entering Waterloo. Brick telephone station on left. Next photo, Waterloo, one mile.

No. 70



## WATERLOO

Turn LEFT and East. Next photo at end of road, three and one-tenth miles.

emo .....

No. 71



Turn LEFT and go fifty feet, then turn right and continue East. Follow wires. Next photo at end of road, one and seven-tenths miles.



No. 72



Turn LEFT at end of road and cross tracks. Follow wire  
Butler three and four-tenths miles. Next photo at end  
road, six and five-tenths miles.

Memo .....

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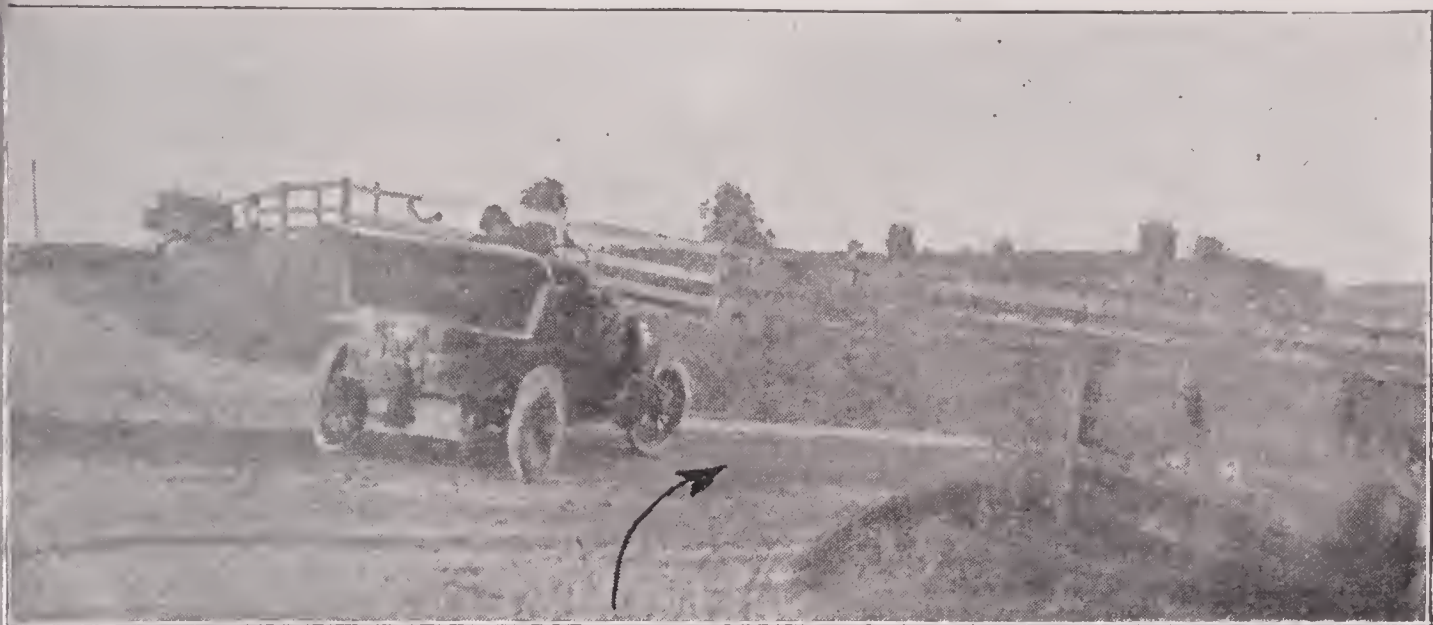
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No. 73



Turn LEFT and North at end of road. Follow wires. Nex  
photo five-tenths of a mile.

No. 74



Turn RIGHT and East just after crossing tracks. Next photo at end of road in Edgerton, three and six-tenths miles.

Memo .....

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No. 75



EDGERTON

Turn RIGHT and cross tracks; then turn left and continue East. Next photo at end of street, three-tenths of a mile.



No. 76



Turn LEFT at end of road. Go one hundred and fifty feet  
turn right and continue East. Next photo at end of road  
two and eight-tenths miles.

Memo .....

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No. 77



Turn LEFT at end of road. Go one hundred and fifty feet  
turn right and continue East. Next photo five and one  
tenth miles.

No. 78



Turn LEFT and North. School house on right after turning.  
Next photo two and one-tenth miles.

Memo .....

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No. 79



Turn RIGHT and North-East. School on left. Follow wires.  
Next photo in Bryan, one and six-tenths miles.



No. 80



BRYAN

Turn RIGHT and East. Church on left before turning. Next photo two blocks.

Memo .....

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No. 81



Turn LEFT into Main Street. Court House on left. Hotel Christman, the best hotel in Bryan, two blocks on the left-hand side of the street. Next photo three blocks.

No. 82



Turn RIGHT and East one block north of Hotel Christman.  
Next photo at end of road, eight-tenths of a mile.

Memo .....

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No. 83



Turn LEFT and North at end of road. Next photo two-  
tenths of a mile.



No. 84



Turn RIGHT and North-East. Next photo two and two tenths miles.

Memo .....

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No. 85



Turn RIGHT and East. Follow wires. Stryker four and nine-tenths miles. Next photo at end of road, eight and seven-tenths miles.

No. 86



Turn LEFT at end of road. Go fifty feet, then turn right and continue East. Next photo at end of road, nine-tenths of a mile.

Memo .....

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No. 87



Turn LEFT and North at end of road. Next photo one and five-tenths miles.



No. 88



Turn RIGHT and East just after crossing tracks. Next photo at end of road in Archbold, one mile.

Memo .....

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No. 89



ARCHBOLD

Turn LEFT and North at end of road in Archbold. Next photo one and four-tenths miles.

No. 90



Turn RIGHT and East. School on left of turn. Next photo  
in Wauseon, nine miles.

emo

No. 91



WAUSEON

Turn LEFT and North into Main Street. Park on right  
before turning. Next photo at end of road, one mile.



No. 92



Turn RIGHT and East at end of road. Next photo at end of road three and six-tenths miles.

Memo .....

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No. 93



Turn RIGHT at end of road. Cross tracks; then turn left and continue East. Next photo one mile.

No. 94



Turn LEFT and North. Schoolhouse on left, church on right.  
Next photo one mile.

memo .....

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No. 95



Turn RIGHT and East into first road after crossing railroad  
tracks. Delta two and one-tenth miles. Next photo  
entering Swanton, nine and one-tenth miles.



No. 96



SWANTON

Turn LEFT and North entering Swanton. Next photo at  
end of road, two and nine-tenths miles.

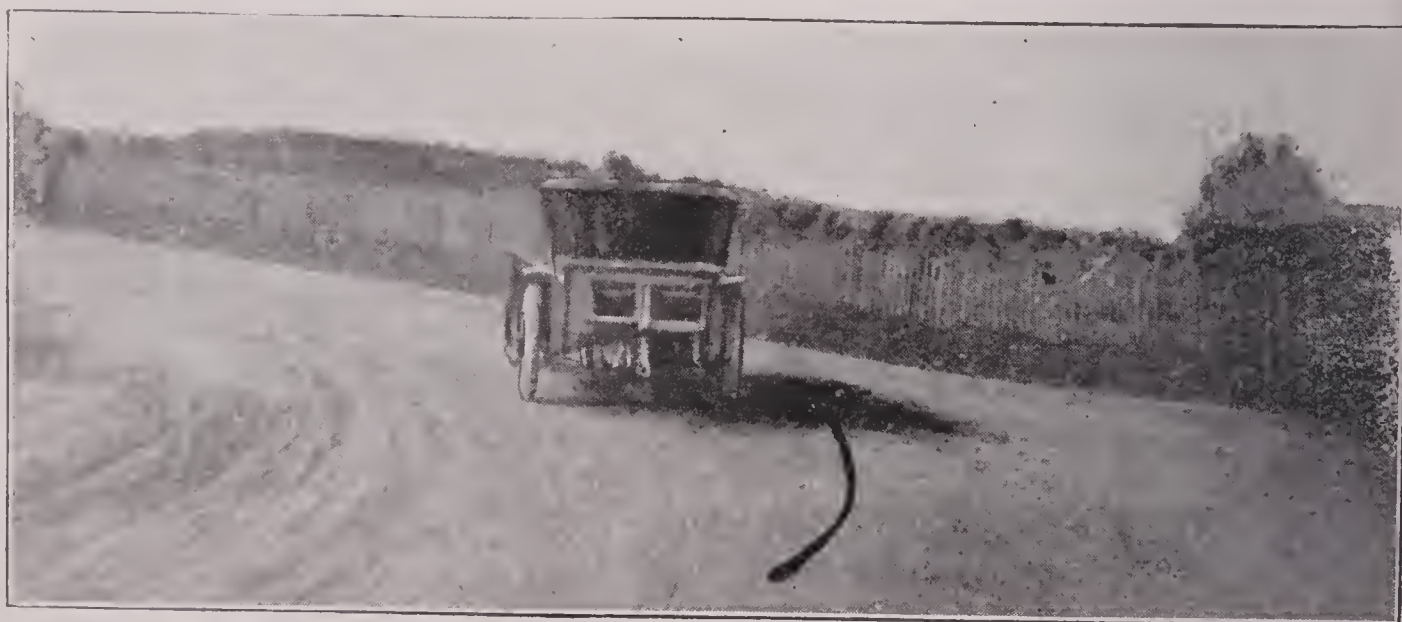
Memo .....

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No. 97



Turn LEFT and West at end of road. Follow wires. Next  
photo five-tenths of a mile.

No. 98



Turn RIGHT and North. Follow the wires. Next photo two and eight-tenths miles.

Memo .....

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No. 99



Turn RIGHT and East. Next photo three-tenths of a mile.



No. 100



Turn LEFT and North. Next photo one mile.

Memo .....

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No. 101



Turn RIGHT and East. Large red brick church on right, cemetery on left. Next photo sixteen and five-tenths miles.

No. 102



Turn RIGHT and South-East. Follow wires. Next photo, Toledo, three and eight-tenths miles. Atwood's garage, one of the best in the west, is on the right-hand side of the street after entering the city.

Memo .....

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No. 103

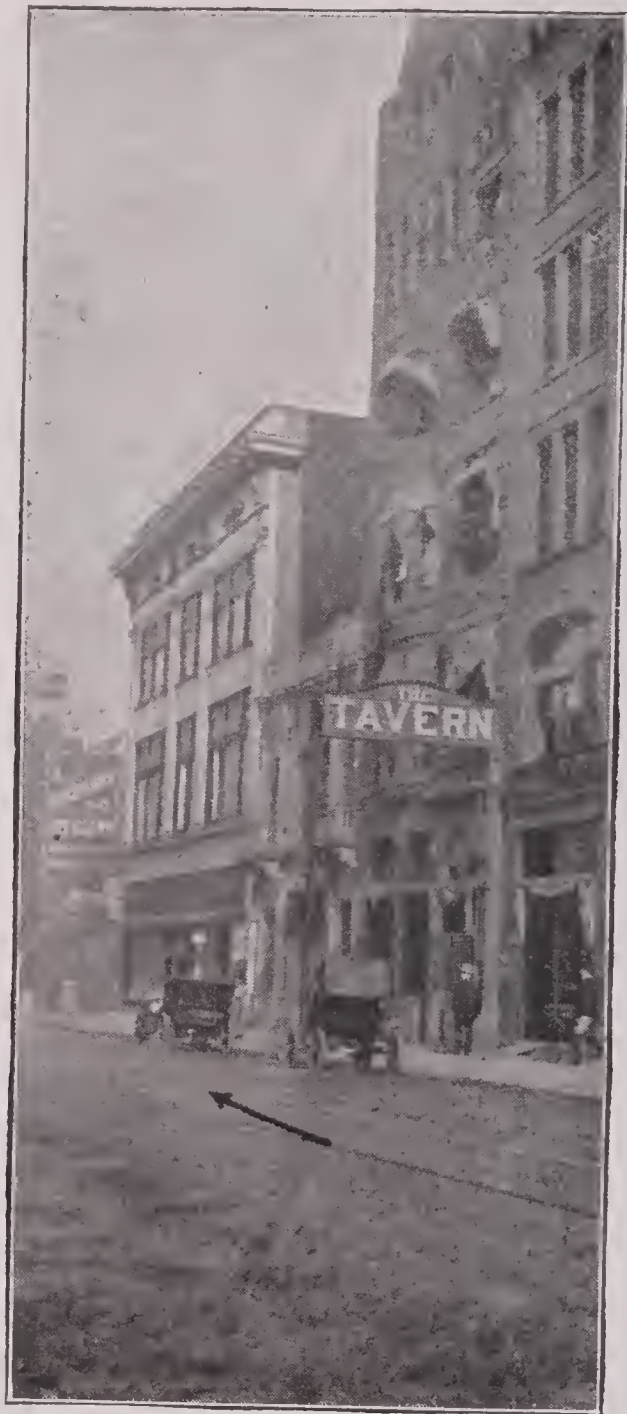


TOLEDO

Turn RIGHT from Monroe Street into St. Clair Street. Next photo two and one-half blocks.



No. 104



### THE TAVERN, TOLEDO, OHIO

STARTING POINT for run from Toledo to Cleveland.  
This is the best Hotel in Toledo for the accommodation of  
tourists. It is run on the European plan, with a fine Cafe  
and Grill Room in connection. Leave the Tavern on the  
RIGHT. Next photo (No. 105) two and one-half blocks.

Memo

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# PHOTO-AUTO MAPS

TOLEDO TO DETROIT  
DETROIT TO TOLEDO





# ATWOOD GARAGE

TOLEDO, OHIO

The best garage in the West. 2815 Monroe Street. Sundries, repairing and charging. Leave the tavern on the LEFT, go two and one-half blocks down St. Clair Street and turn right into Monroe Street. Atwood Automobile Company on Monroe Street near Bancroft Street. Agents for the Franklin, Elmore and Pope-Hartford.

# Memo

No. 1B



## THE TAVERN, TOLEDO, OHIO

This is the best Hotel in Toledo for the accommodation of tourists. It is run on the European plan, with a fine Cafe and Grill Room in connection. Leave the Tavern on the LEFT. Next photo one-half block.

Memo .....

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No. 2B



Turn RIGHT from St. Clair Street into Madison Avenue  
Next photo one and two-tenths miles.

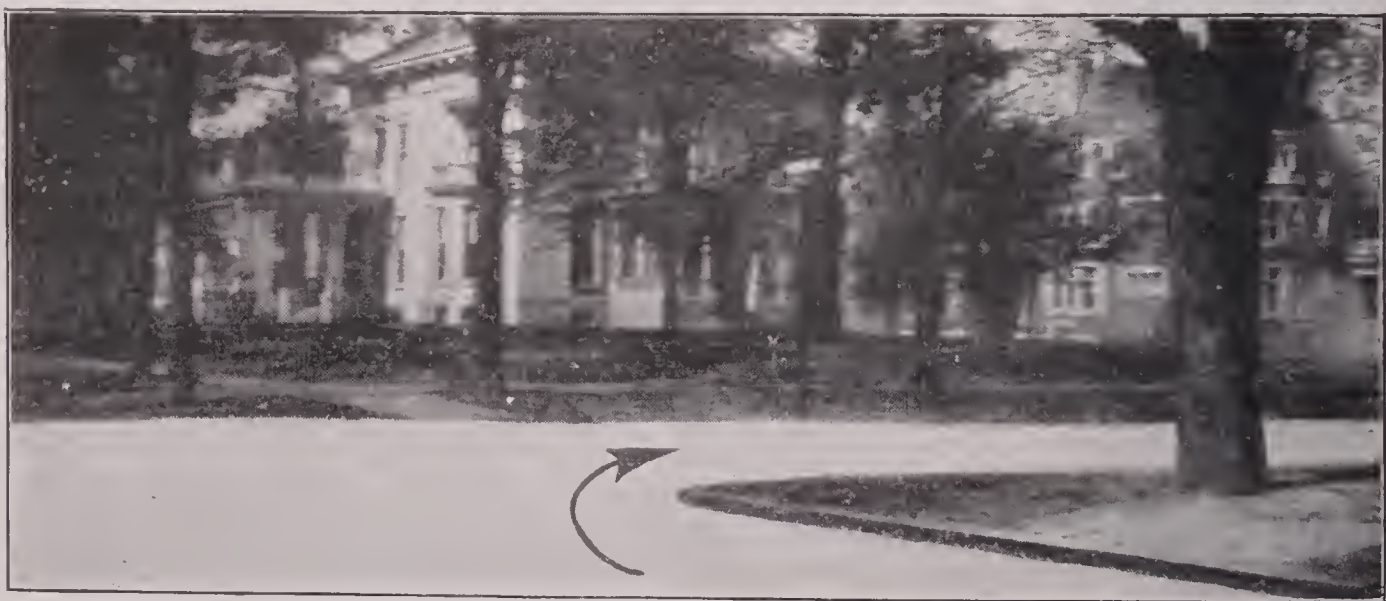
Memo .....

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No. 3B



Turn RIGHT and North from Woodruff Avenue into Colling-  
wood Avenue. Next photo in Monroe, nineteen and seven-  
tenths miles.

No. 4B



### MONROE

Turn RIGHT and East at end of street. Power house on left after turning. Next photo eight-tenths of a mile.

Memo .....

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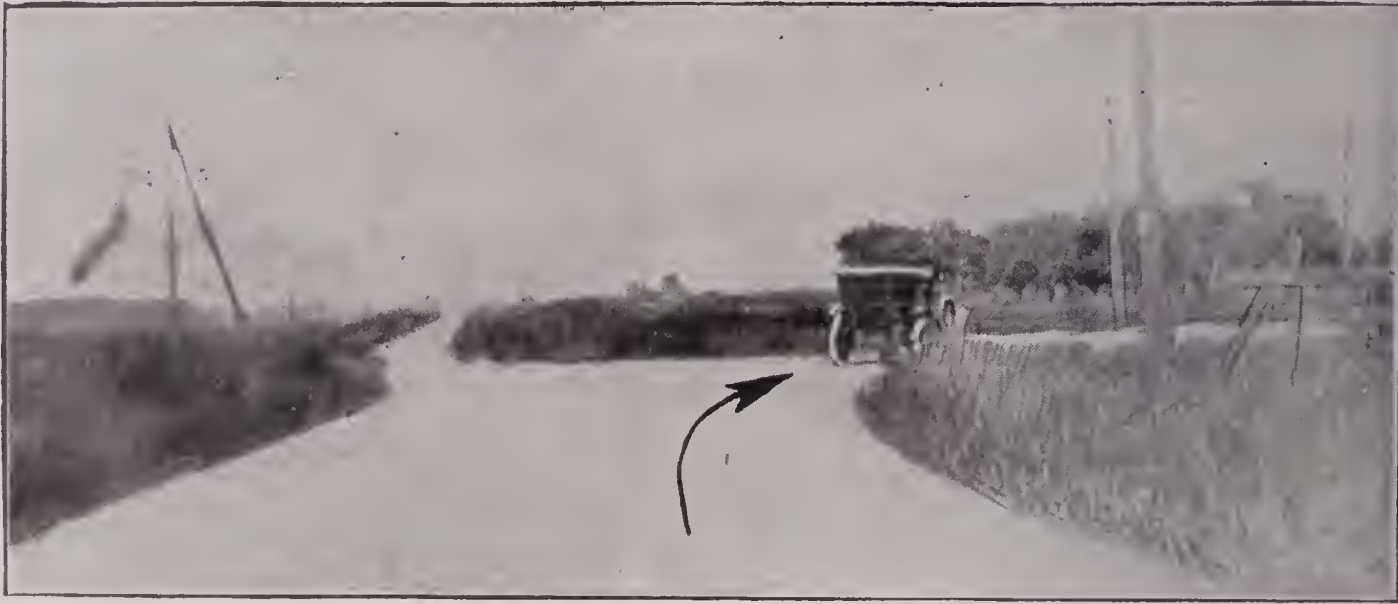
No. 5B



Turn LEFT and North before going over second railroad crossing. Two railroad bridges on right. Next photo seven-tenths of a mile.



No. 6B



Turn RIGHT and North-East. Follow most wires. Next photo, Neuport, seven and two-tenths miles.

Memo .....

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No. 7B



NEUPORT

Turn slightly to RIGHT and cross bridge. Church on left. Next photo five and four-tenths miles

No. 8B



Turn slightly to **LEFT** after crossing bridge. Follow wires.  
Next photo, Trenton, six and four-tenths miles.

Memo .....

No. 9B



**TRENTON**

Turn **RIGHT** and East on entering Trenton. Next photo  
two-tenths of a mile.



No. 10B



Turn LEFT into Main Street. Wyandotte four and five-tenths miles. Next photo in Detroit, twelve and six-tenths miles.

Memo .....

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No. 11B



DETROIT

Turn LEFT from Jefferson Street into Clark Street. Follow car tracks. Next photo three-tenths of a mile.

No. 12B



Turn RIGHT from Clark Street into Fort Street. Next photo at Campus Martius and Cadillac Square, two and four-tenths miles.

Memo .....

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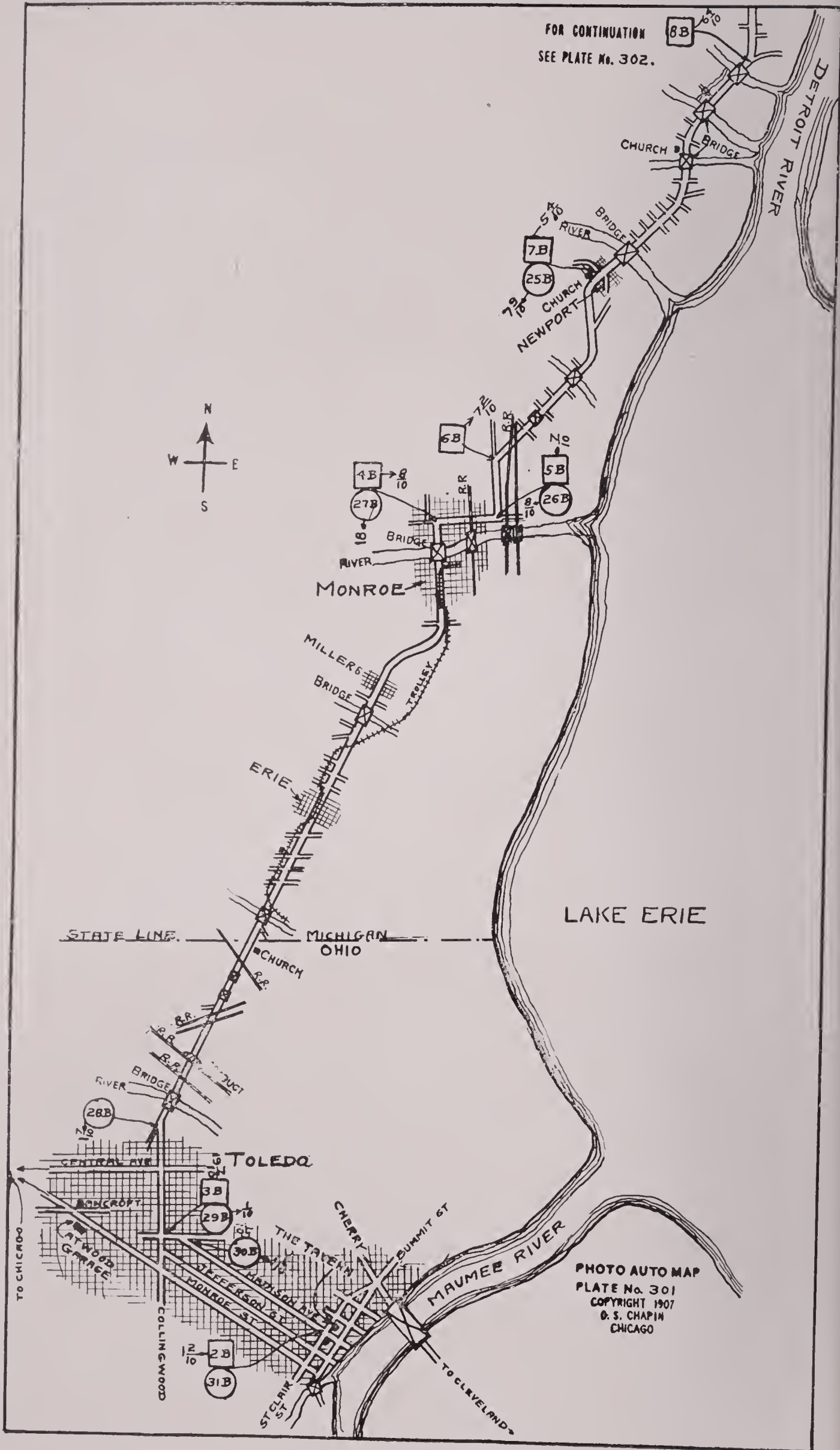
No. 13B

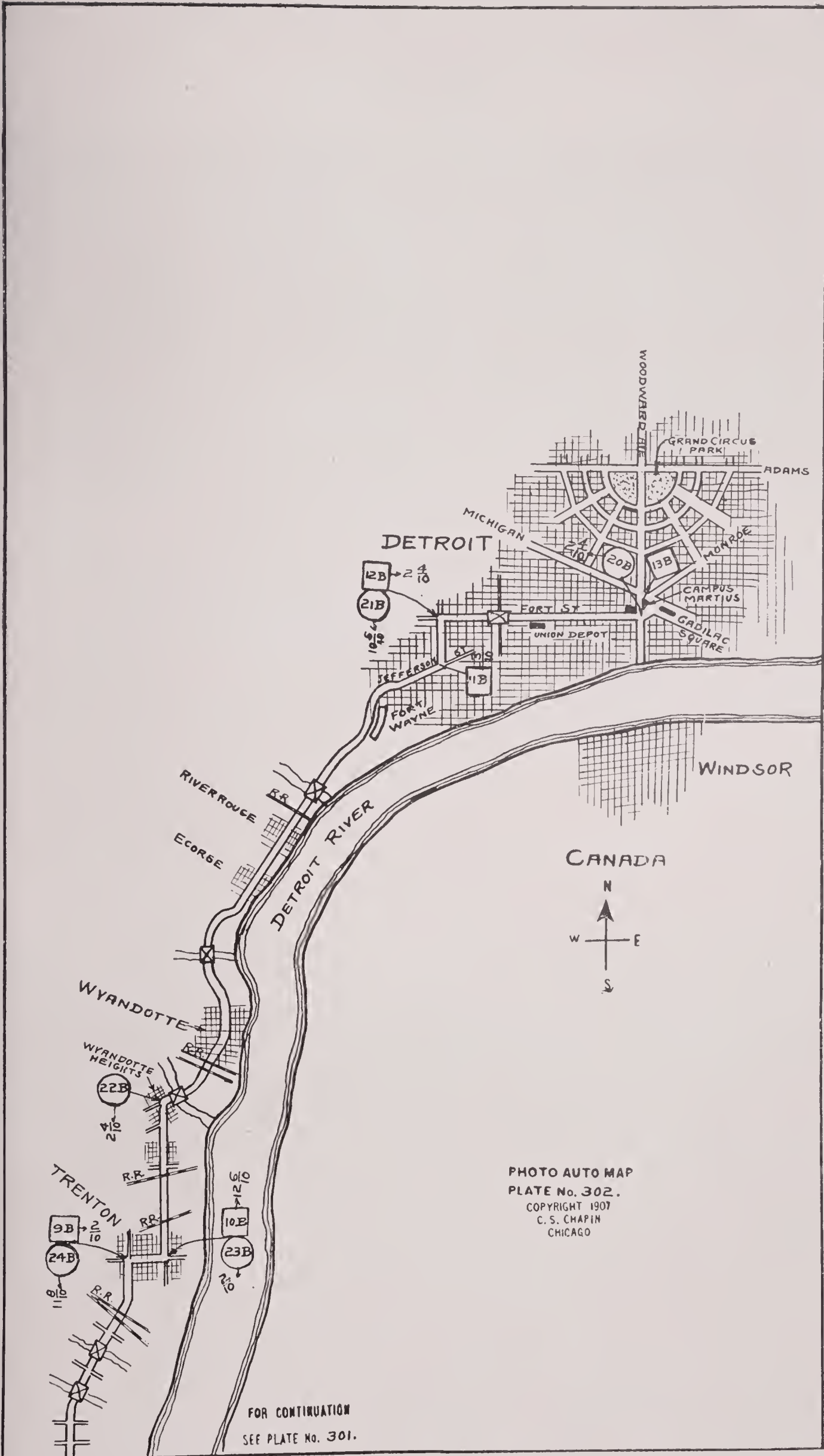


CENTER OF CITY.



FOR CONTINUATION  
SEE PLATE No. 302.







No. 20B



DETROIT

Center of city. Go WEST on Fort Street. Next photo two and four-tenths miles.

Memo .....

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No. 21B



Turn LEFT from Fort Street into Clark Street. Bathing springs on right before turning. Wyandotte eight and four-tenths miles. Next photo in Wyandotte Heights, ten and five-tenths miles.

No. 22B



### WYANDOTTE HEIGHTS

Turn LEFT and South. Follow car tracks and wires. Next photo in Trenton, two and four-tenths miles.

Memo .....

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No. 23B

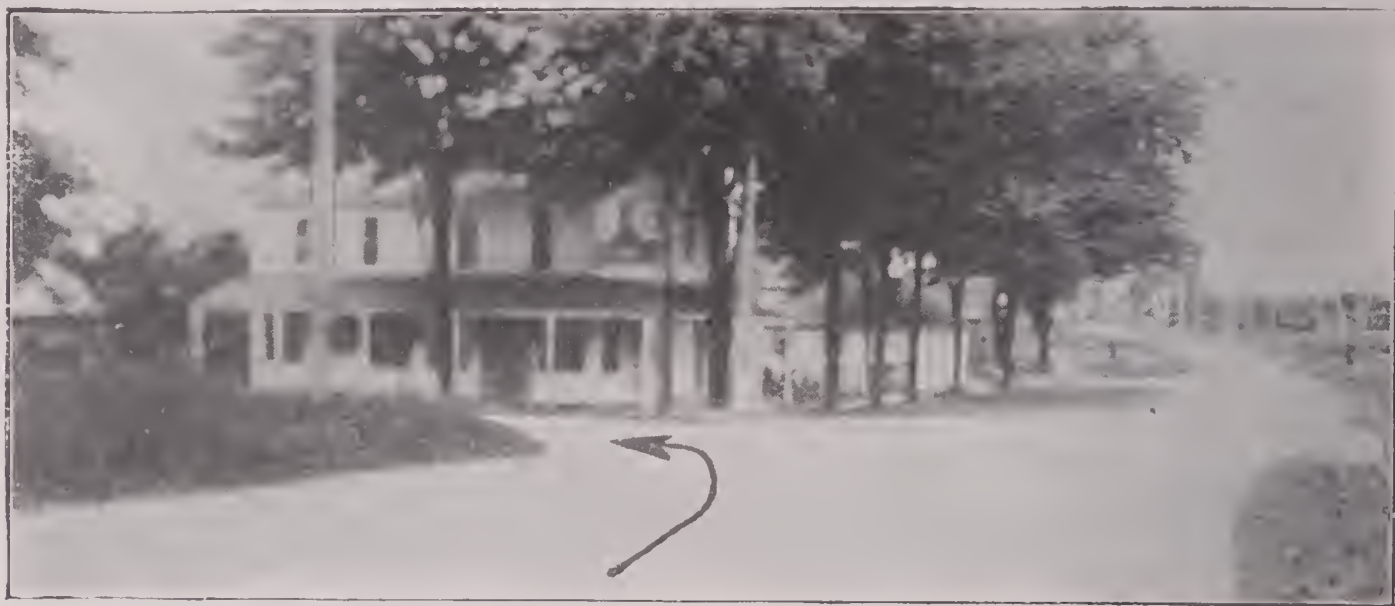


### TRENTON

Turn RIGHT and leave Main Street one block after passing hotel. Next photo two-tenths of a mile.



No. 24B



Turn LEFT and South. Next photo in Neuport, eleven and eight-tenths miles.

Memo .....

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No. 25B



NEUPORT

Turn slightly to LEFT. Church on right of turn. Next photo seven and nine-tenths miles.

No. 26B



Turn RIGHT and West at end of road. River on left after turning. Next photo in Monroe, eight-tenths of a mile.

Memo .....

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No. 27B



MONROE

Turn LEFT and South. Power house on right before turning, school on right after turning. Next photo eighteen miles.



No. 28B



Turn LEFT and South at fork. Follow car tracks. Next photo in Toledo, one and seven-tenths miles.

Memo .....

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No. 29B



TOLEDO

Turn LEFT from Collingwood Avenue into Woodruff. Next photo one block.

No. 30B



Turn RIGHT from Woodruff Avenue into Madison Avenue.  
Next photo one and one-tenth miles.

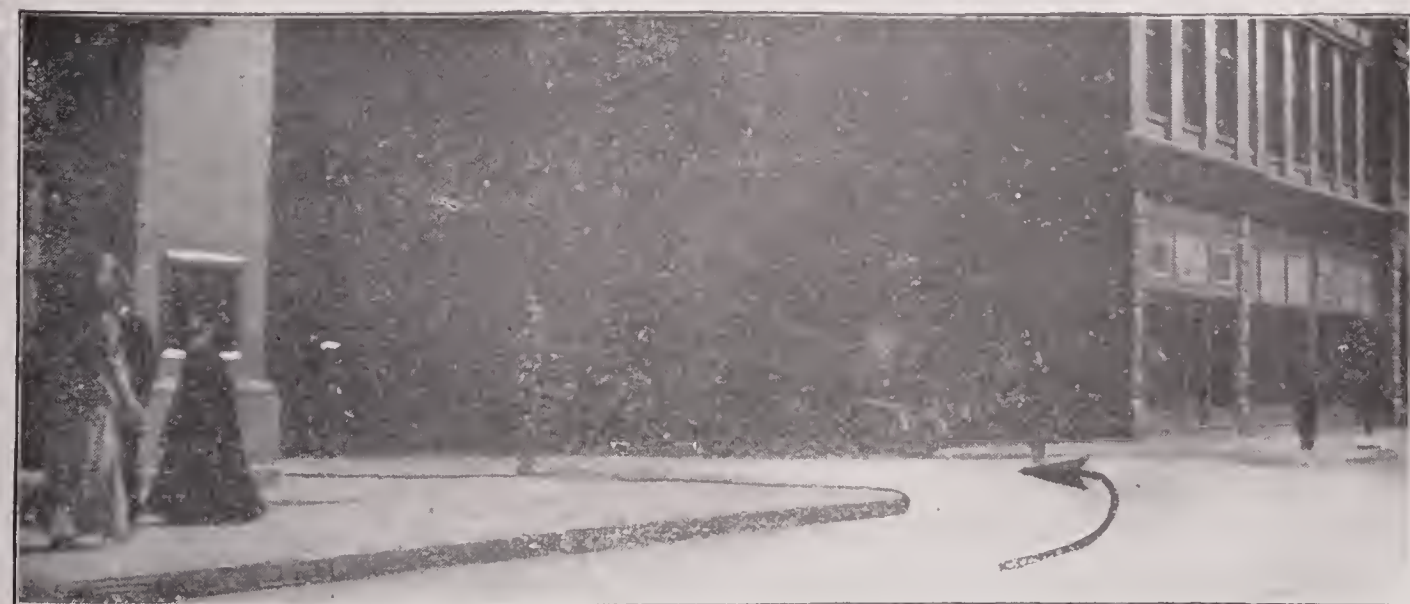
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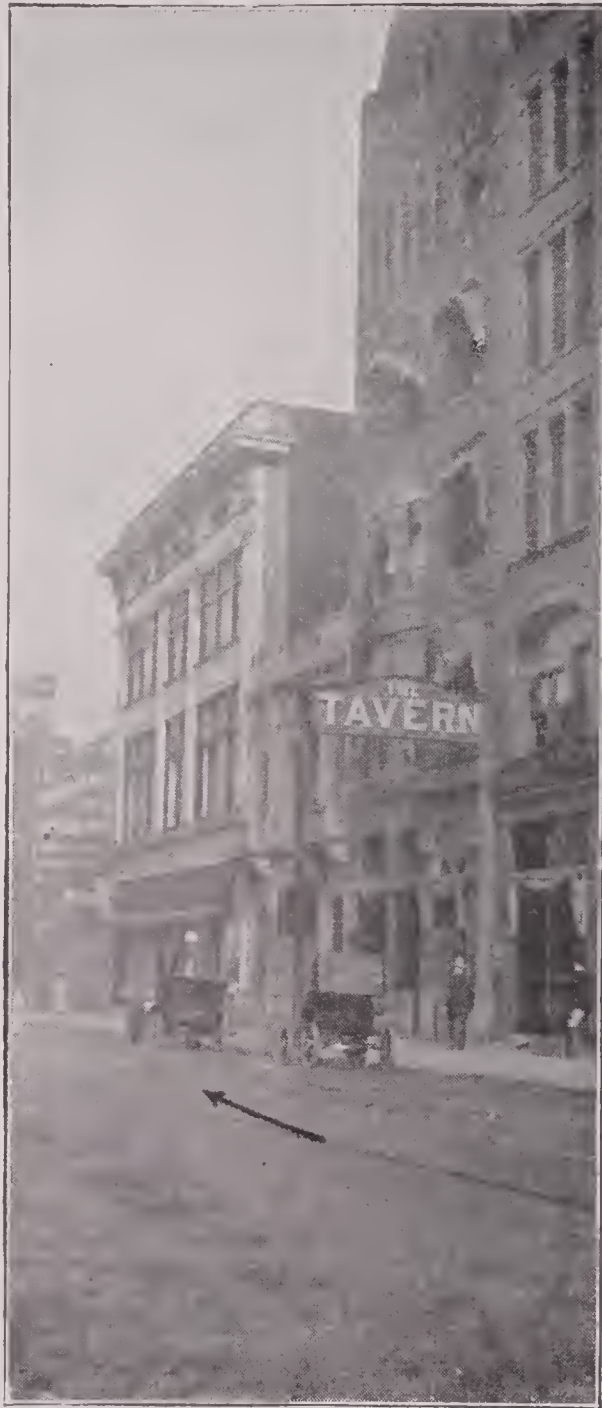
No. 31B



Turn LEFT from Madison Avenue into St. Clair Street. The  
Tavern one-half block.



No. 32B



### THE TAVERN, TOLEDO, OHIO

This is the best Hotel for the accommodation of tourists.  
It is run on the European plan and has a fine Cafe and Grill  
Room in connection.

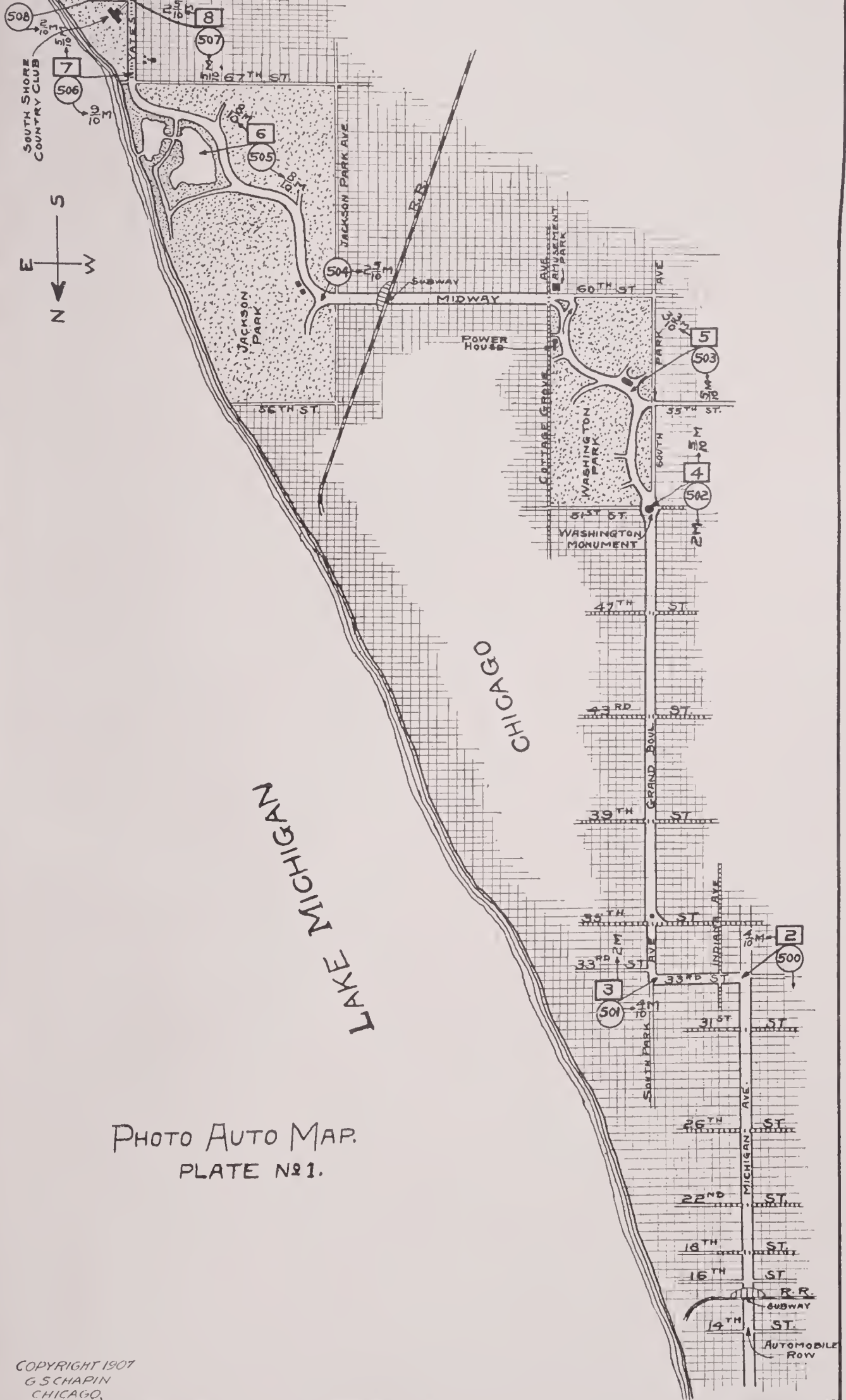
Memo .....

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FOR CONTINUATION  
SEE PLATE N°2.





FOR CONTINUATION  
SEE PLATE NO 3

TO CROWN POINT

BRIDGE

BRIDGE

ICE HOUSE

SCHOOL

R.R.

PARK

MAJESTIC HOTEL & CAFE

HAMMOND

LITTLE CALUMET RIVER

CAR BARN

CHICAGO CITY LIMITS

GARY HARBOR TO EAST CHICAGO

BRIDGE

ICE HOUSE

R.R.

GRACE TRACK

LAKE MICHIGAN

CHICAGO

ILLINOIS ST

BAND AVE

79TH ST

78TH ST

85TH ST

SUPERIOR ST

509

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511

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PHOTO AUTO MAP.  
PLATE NO 2.

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CHICAGO.

FOR CONTINUATION  
SEE PLATE NO 1

PHOTO AUTO MAP.  
PLATE No 2.

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CHICAGO.

FOR CONTINUATION  
SEE PLATE NO. 1

FOR CONTINUATION  
SEE PLATE N<sup>o</sup> 4.

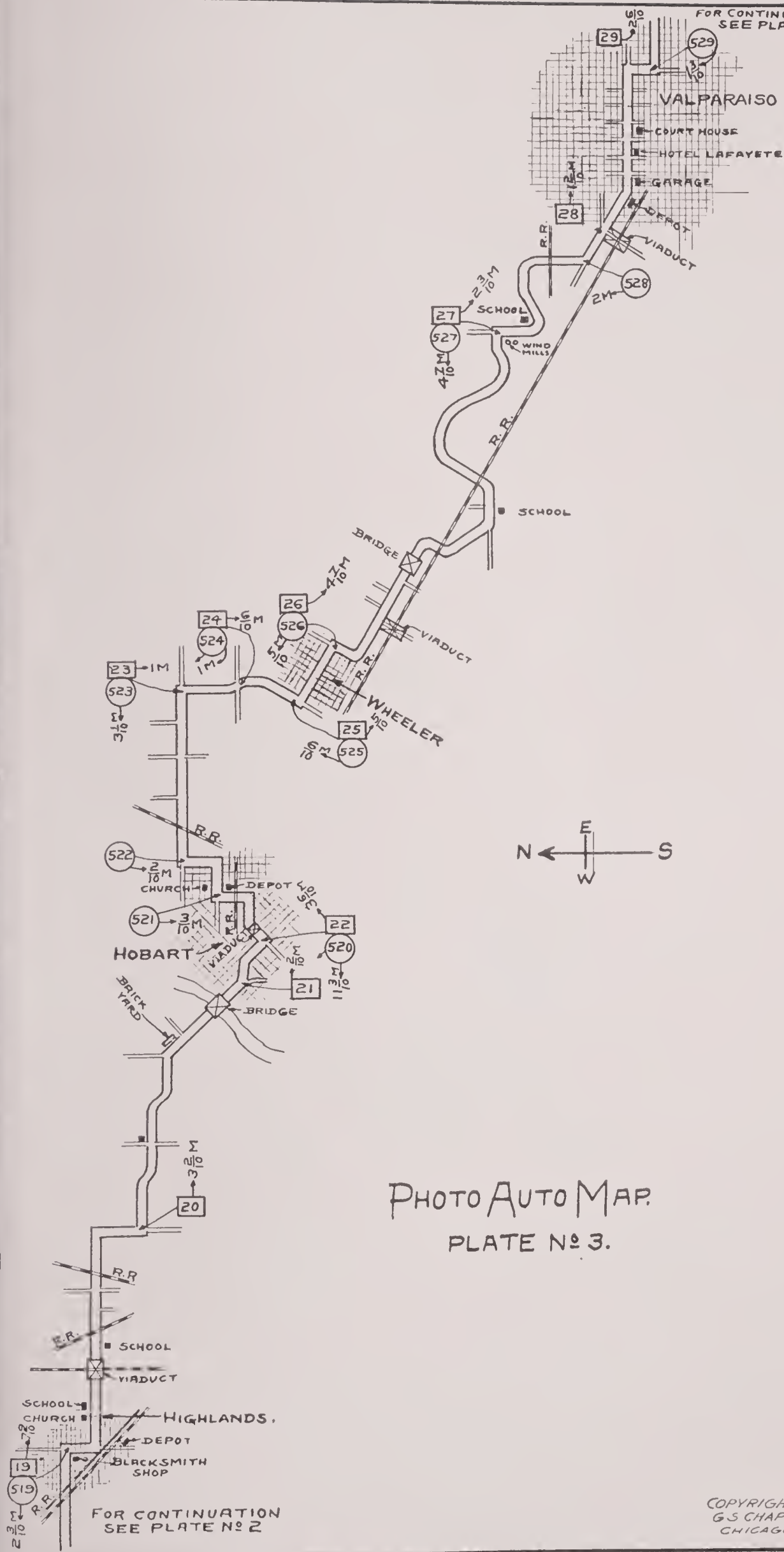


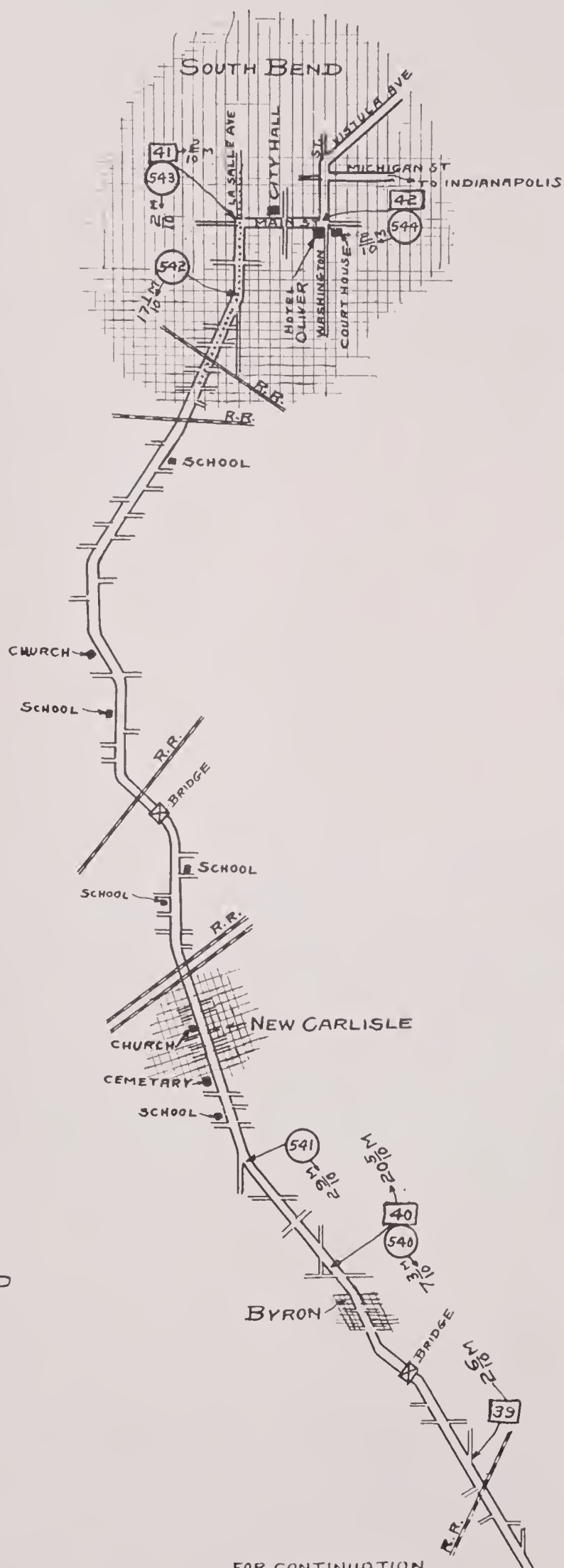
PHOTO AUTO MAP.  
PLATE N<sup>o</sup> 3.

FOR CONTINUATION  
SEE PLATE N<sup>o</sup> 2

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CHICAGO.







FOR CONTINUATION  
SEE PLATE N<sup>o</sup> 4



PHOTO AUTO MAP  
PLATE No. 6  
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FOR CONTINUATION  
SEE PLATE No. 7

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CHICAGO

# PHOTO-AUTO MAPS

## TOLEDO TO CHICAGO



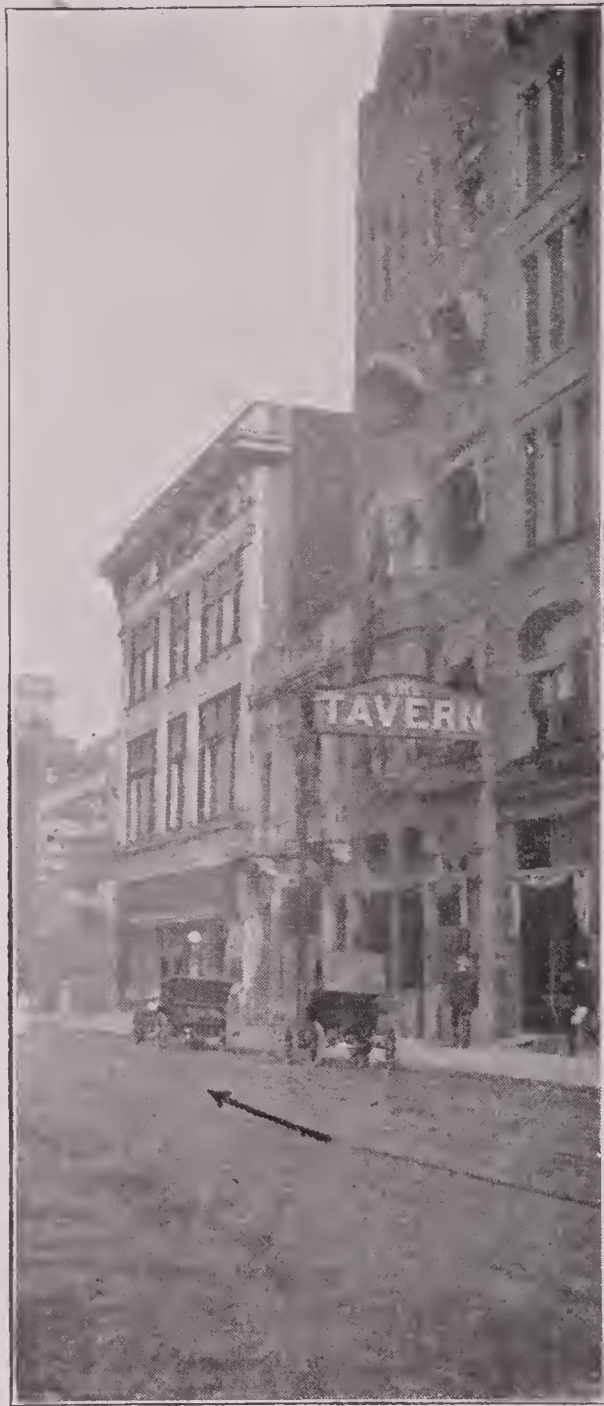
### ATWOOD GARAGE

2815 MONROE ST., TOLEDO, OHIO

This is the best garage in Toledo. Sundries, repairing and charging. Leave the Tavern on the LEFT and go two and one-half blocks to Monroe Street. Turn right into Monroe Street and go straight ahead to the garage. Agents for the Franklin, Elmore and Pope-Hartford.



No. 607



## THE TAVERN, TOLEDO, OHIO

STARTING POINT of run from Toledo to South Bend. The hotel is the best in Toledo for the accommodation of tourists. European plan, with fine cafe and grill room in connection. Leave the Tavern on the LEFT and go two and one-half blocks to next photo.

Memo .....

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No. 606.



Turn RIGHT from St. Clair Street into Monroe Street. Atwood Automobile Co. Garage on left hand side of Monroe St., one and three-quarters miles. This is one of the best Garages in the West. Next photo three and eight-tenths miles.

emo .....

No. 605



Turn LEFT and West. Follow wires. Next photo sixteen and five-tenths miles.



No. 604



Turn LEFT and South. Church on left, cemetery on right after turning. Next photo at end of road, one mile.

Memo .....

No. 603



Turn RIGHT and West at end of road. Follow wires. Next photo three-tenths of a mile.

No. 602



Turn LEFT and South. Next photo at end of road, two and eight-tenths miles.

emo .....

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No. 601



Turn LEFT and East at end of road. Follow wires. Next photo five-tenths of a mile.



No. 600



Turn RIGHT and South. Follow wires. Next photo leaving Swanton, two and nine-tenths miles.

Memo .....

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No. 599



SWANTON

Turn RIGHT and West leaving Swanton. Delta six and four tenths miles. Next photo nine and one-tenth miles.

No. 598



Turn LEFT and South. Next photo one mile.

Remo .....

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No. 597



Turn RIGHT and West. School on right, church on left of turn. Next photo at end of road, one mile.



No. 596



Turn RIGHT at end of road. Cross railroad tracks, then turn left and continue West. Next photo three and six tenths miles.

Memo .....

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No. 595



Turn LEFT and South. Next photo at end of street Wauseon, one mile.

No. 594



### WAUSEON

Turn RIGHT and West at end of Main Street. Park on left after turning. Next photo one and two-tenths miles.

emo .....

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No. 593



Turn RIGHT and cross tracks, then continue West. Next photo seven and eight-tenths miles.



No. 592



Turn LEFT and South. Red brick school on right. Follow wires. Next photo in Archbold, one and four-tenths miles

Memo .....

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No. 591



ARCHBOLD

Turn RIGHT and West from Main Street opposite Hotel Verniss. Next photo one mile.

No. 590



Turn LEFT and South. Leave wires. Next photo one and five-tenths miles.

memo .....

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No. 589



Turn RIGHT and West. School on left after turning. Next photo at end of road, nine-tenths of a mile.



No. 588



Turn LEFT at end of road and go fifty feet, then turn right and continue West. Stryker three and eight-tenths miles  
Next photo eight and seven-tenths miles.

Memo .....

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No. 587



Turn LEFT and South. Next photo two and four-tenths miles.

No. 586



Turn RIGHT and West. Next photo in Bryan, eight-tenths of a mile.

emo

No. 585



BRYAN

Turn LEFT and South into Main Street. Hotel Christman, the best hotel in Bryan, one block. Next photo three blocks.



No. 584



Turn RIGHT and West from Main Street. Court House right. Next photo two blocks.

Memo .....

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No. 583



Turn LEFT and South. Church on right after turning  
Next photo three-tenths of a mile.

No. 582



Turn RIGHT and South-West. Mill on left of turn. Next photo three and four-tenths miles.

Remo .....

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No. 581



Turn RIGHT and West. School on left before turning. Next photo three and eight-tenths miles.



No. 580



Keep to RIGHT at fork. Pass school-house on left. Next photo at end of road, one and three-tenths miles.

Memo .....

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No. 579



Turn LEFT at end of road. Go one hundred and fifty feet, then turn right and continue West. Next photo at end of road in Edgerton, two and eight-tenths miles.

No. 578



### EDGERTON

Turn LEFT at end of road. Go one hundred and fifty feet, then turn right and West. Next photo three-tenths of a mile.

Memo .....

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No. 577



Turn RIGHT and cross railroad tracks; then turn left and continue West. Next photo three and six-tenths miles.



No. 576



Turn LEFT and South. Cross railroad tracks. Next photo five-tenths of a mile.

Memo

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No. 575



Turn RIGHT and West. Follow wires. Butler three and one-tenth miles. Next photo after crossing tracks, six and five-tenths miles.

No. 574



Turn RIGHT and West after crossing tracks. Next photo at end of road, one and seven-tenths miles.

emo .....

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No. 573



Turn LEFT at end of road. Go fifty feet, then turn right and continue West. Follow wires. Next photo, Waterloo, three and one-tenth miles.



No. 572



### WATERLOO

Turn RIGHT and South entering Waterloo. Next photo one mile.

Memo .....

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No. 571



Turn LEFT on first road after crossing bridge. Next photo ten and six-tenths miles.

No. 570



Turn LEFT and West. Follow wires. Next photo in Kendallville, three and three-tenths miles.

emo -----  
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No. 569



KENDALLVILLE

Turn LEFT and South into East Street. Next photo two-tenths of a mile.



No. 568



Turn RIGHT from East Street into Mitchell Street. Follow  
wires. Next photo six-tenths of a mile.

Memo .....

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No. 567



Turn RIGHT and North from Mitchell Street into Ma  
Street. Next photo at end of road six-tenths of a mile.

No. 566



Turn LEFT at end of road. Next photo one-tenth of a mile.

emo

No. 565



Go STRAIGHT AHEAD and cross railroad tracks. Brimfield  
five and six-tenths miles. Next photo after crossing  
viaduct, five and nine-tenths miles.



No. 564



Turn LEFT and cross bridge; then turn right and continue  
West. Next photo at end of road, four and one-tenth mile

Memo .....

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No. 563



Turn RIGHT and North at end of road. Follow most wires  
Next photo in Wawaka, seven-tenths of a mile.

No. 562



WAWAKA

Turn LEFT and West. Red brick church on right. Follow  
wires. Next photo one and three-tenths miles.

emo

No. 561



Turn LEFT and West. Follow wires. Next photo eight-  
tenths of a mile.



No. 560



Turn RIGHT and West. School on left. Follow wire.  
Next photo at end of road, two and four-tenths miles.

Memo .....

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No. 559



Turn RIGHT and North at end of road. Follow wire.  
Next photo two-tenths of a mile.

No. 558



Turn LEFT and West. Follow wires. Next photo Ligonier, one and two-tenths miles.

Memo .....

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No. 557

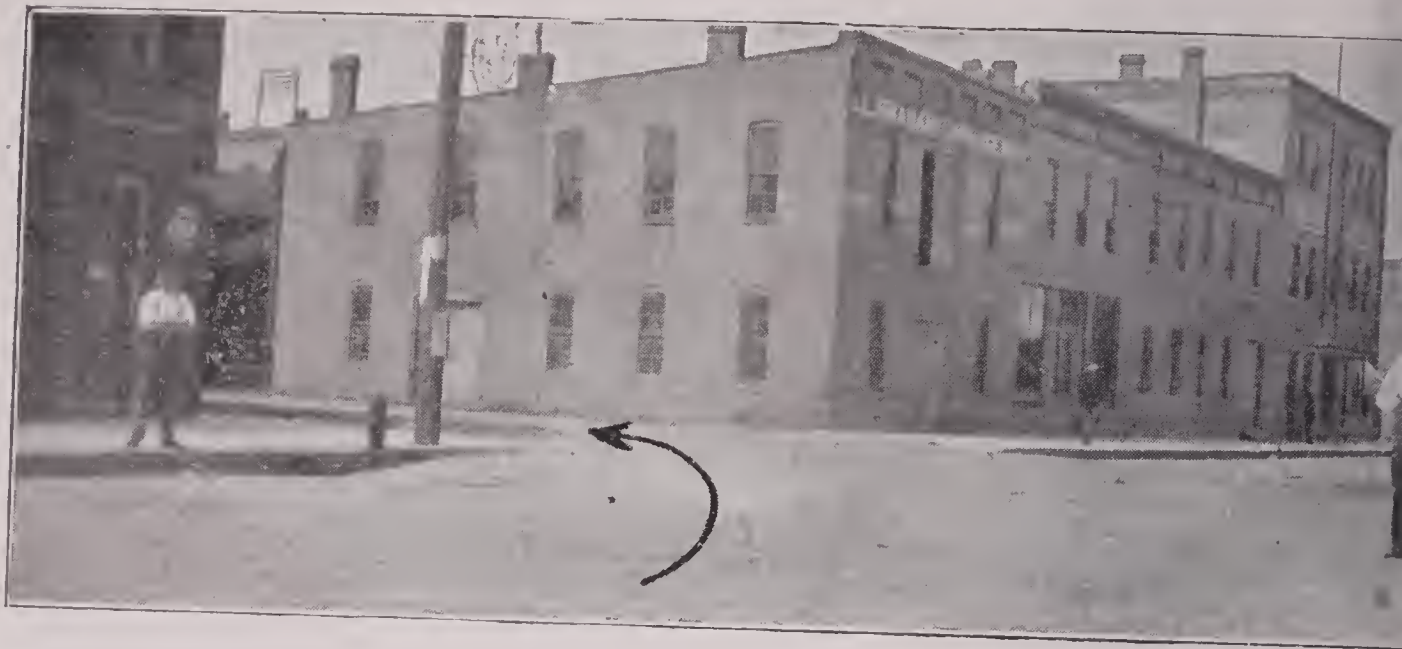


LIGONIER

Turn RIGHT and North. Next photo four-tenths of a mile.



No. 556



Turn LEFT and West from Main Street. Next photo five and nine-tenths miles.

Memo .....

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No. 555



Turn RIGHT and North. School house on right. Follow most wires. Next photo at end of road, six-tenths of a mile.

No. 554



Turn LEFT and West at end of road. Follow wires. Benton  
four and two-tenths miles. Next photo entering Goshen,  
ten and eight-tenths miles.

emo .....

No. 553



Turn LEFT and West. Next photo in Goshen, six-tenths  
of a mile.



No. 552



### GOSHEN

Turn RIGHT and North into Main Street. Next photo five tenths of a mile. Hotel Hascal, the best in Goshen, opposite square on left side of Main Street. Goshen Automobile C opposite Hotel Hascal.

Memo .....

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No. 551



Turn LEFT from Main Street. Follow car tracks. Next photo after crossing bridge, four-tenths of a mile.

No. 550



Turn RIGHT into first street after crossing bridge. Next photo one mile.

Memo .....

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No. 549



Turn RIGHT and North. Next photo three and one-tenth miles.



No. 548



Turn LEFT and cross railroad tracks; then turn right and continue along tracks. Dunlap one mile. Next photo one and six-tenths miles.

Memo .....

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No. 547



Turn LEFT and West. Next photo Osceola, five and seven-tenths miles.

No. 546



### OSCEOLA

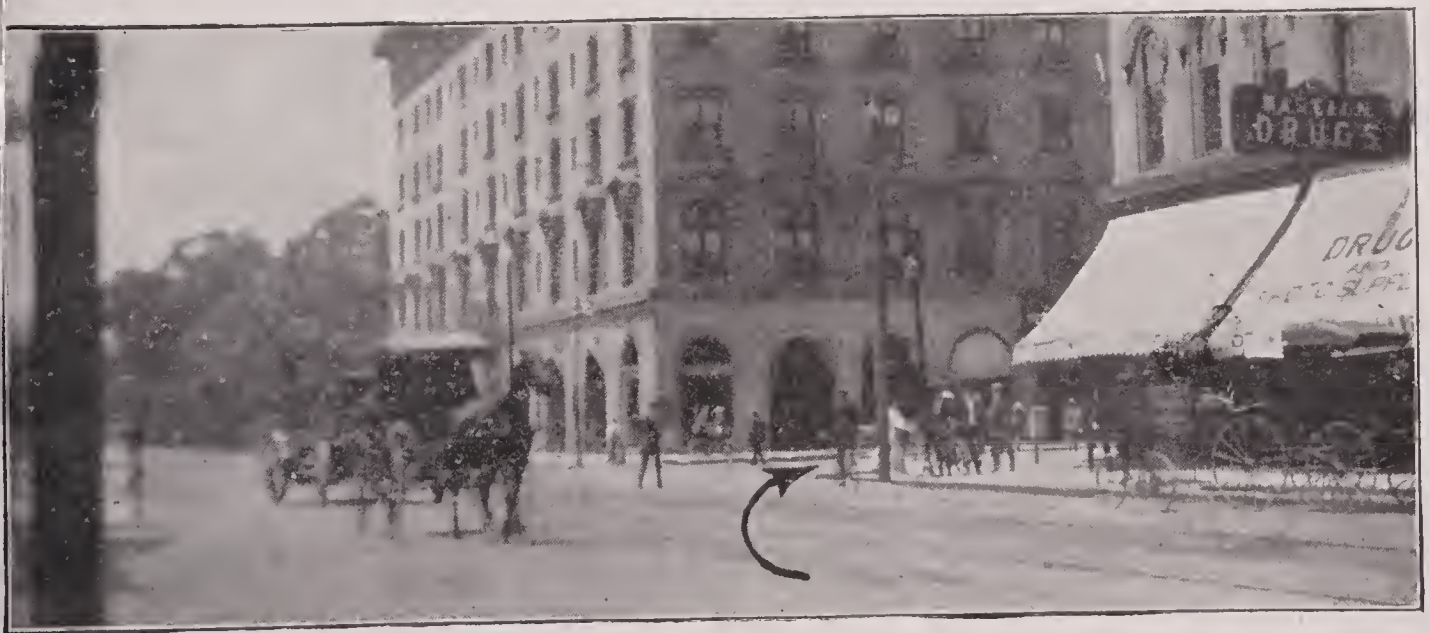
Turn RIGHT; cross railroad tracks, then turn left and continue West. Mishawaka five and eight-tenths miles. Next photo South Bend, ten and one-tenth miles.

emo .....

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No. 545



Turn RIGHT from Washington Street into Main Street. Hotel Oliver (photo No. 544) at this corner.



No. 544



## HOTEL OLIVER, SOUTH BEND, IND.

This hotel is one of the best encountered between Chicago and New York. Every facility possible is provided for the comfort of its guests. Auto parties given special attention. Next photo (No. 543) two blocks.

Memo



TWENTIETH CENTURY GARAGE  
SOUTH BEND, IND.

SOUTH BEND, IND.

located one block WEST of Hotel Oliver and half a block South on Lafayette Street. This garage is equipped with a first-class machine shop, and special attention is given to tourists.

emo



No. 543



Turn LEFT, West. Turn from Main Street into La Salle Street, two blocks from the Hotel Oliver. Next turn two tenths of a mile.

Memo .....

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No. 542



Turn RIGHT, West. Follow street car tracks to end of brick pavement. Next photo seventeen and one-tenth miles, after passing through New Carlisle, fourteen miles. Follow the wires.



No. 541



Turn LEFT, South-West. Cottage ahead on right at turn.  
Next turn two and nine-tenths miles. Road on right leads  
to Rolling Prairie.

Remo .....

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No. 540



STRAIGHT AHEAD, South-West. White frame dwelling  
on left. Next photo seven and three-tenths miles.



No. 539



Turn LEFT. Mill on left, go to end of street and turn right, go two blocks. Next photo five-tenths of a mile.

Memo .....

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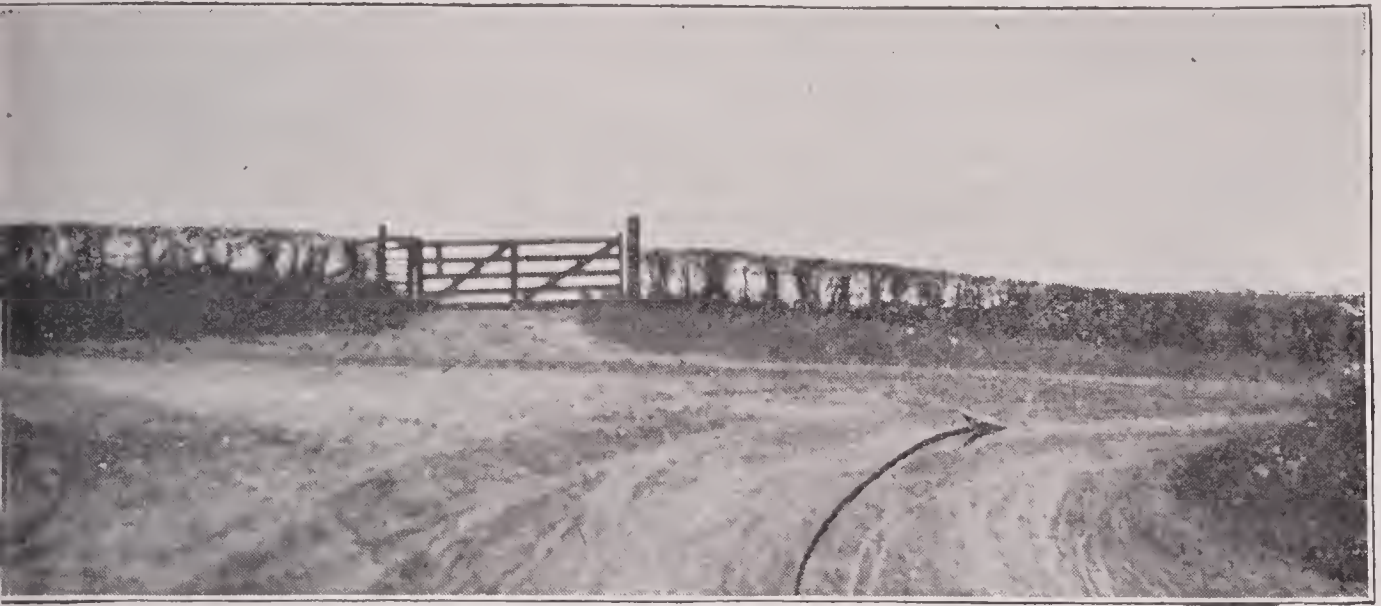
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No. 538



Turn LEFT, South. Large hole on right, small lake on block ahead on right. Next photo nine-tenths of a mile.

No. 537



Turn RIGHT, West. Next photo three-tenths of a mile.

emo .....

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No. 536



Turn LEFT. Next photo three-tenths of a mile.



No. 535



Turn RIGHT, West. Follow the wires. Next photo Westville, nine miles.

Memo .....

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No. 534

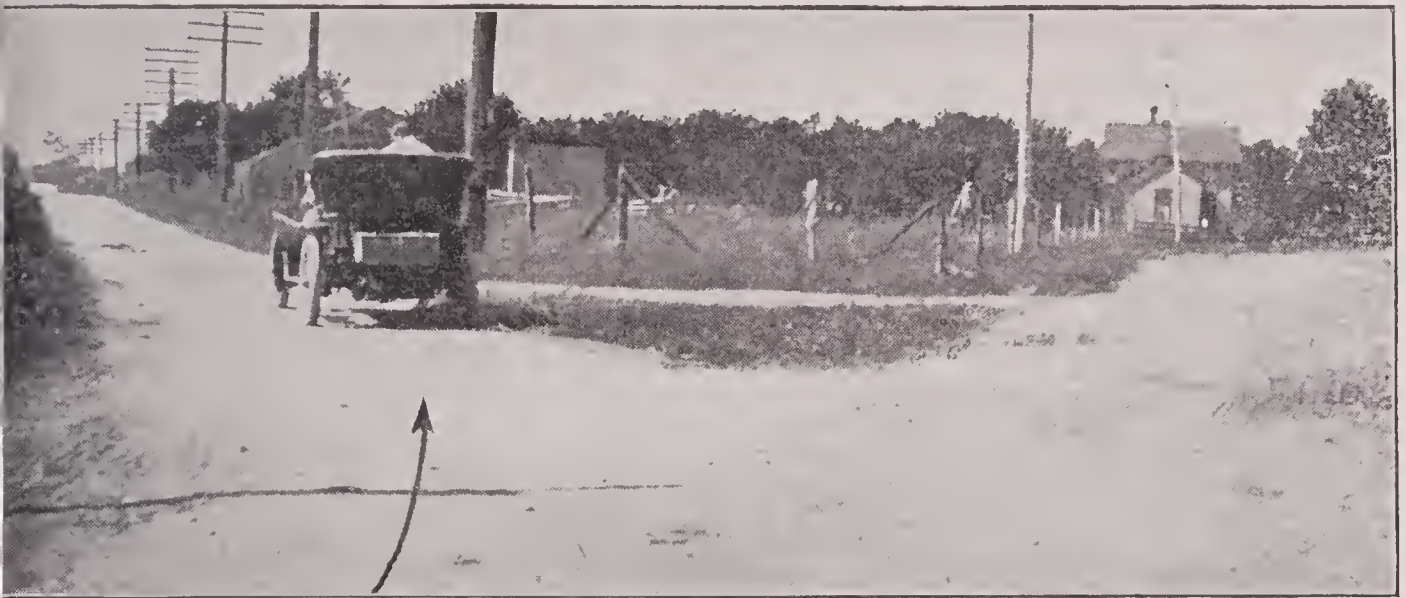


## WESTVILLE

Turn RIGHT, North. After going one hundred and fifty feet turn left on Main Street in Westville, keep straight ahead through town, passing under R. R. embankment. Next photo eight-tenths of a mile.



No. 533



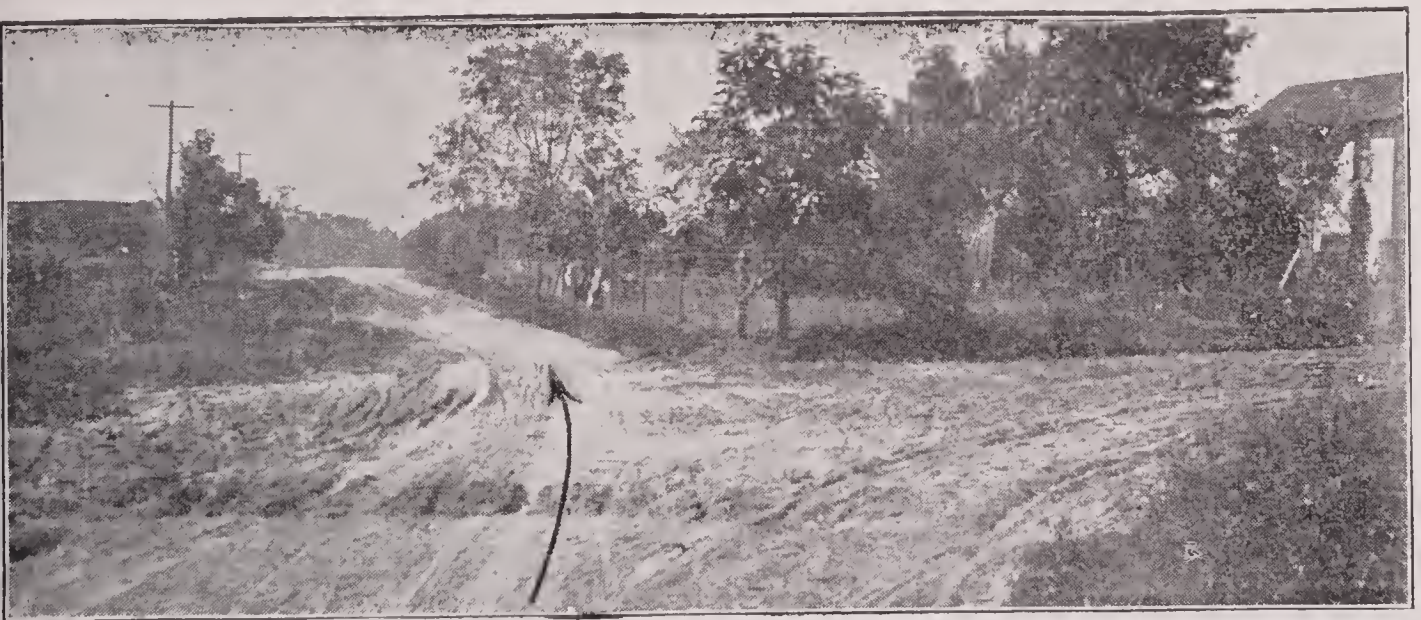
Turn LEFT, West, after passing under R. R. embankment.  
Next photo two and three-tenths miles.

Remo .....

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No. 532



STRAIGHT AHEAD. Next photo after arriving at end of  
road, turning to left and crossing small bridge, three and  
five-tenths miles.



No. 531



Turn RIGHT, South-West. After crossing small bridge re  
main on main road. Next turn at cross roads, one an  
three-tenths miles.

Memo .....

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No. 530



Turn RIGHT, West. Cross roads. Next turn Valparaiso  
two and six-tenths miles.



No. 529



## VALPARAISO

Turn RIGHT, North. Go one hundred and fifty feet, then left on Main Street to end of town, passing railroad depot and viaduct. Next turn one and three-tenths miles. One block past Court House on same side of street is Hotel Lafayette. This hotel is the best between South Bend and Chicago. Special meal arrangements can be made by long distance telephone 991. One block beyond hotel is Zimmerman's garage—expert machinists always in waiting. After hours ring electric bell on side office door.

Memo .....

No. 528



Turn RIGHT, North. Next photo at group of barns and wind mill, two miles.



No. 527



Turn LEFT, West. Wind mills and group of barns on left  
Next photo Wheeler, four and seven-tenths miles.

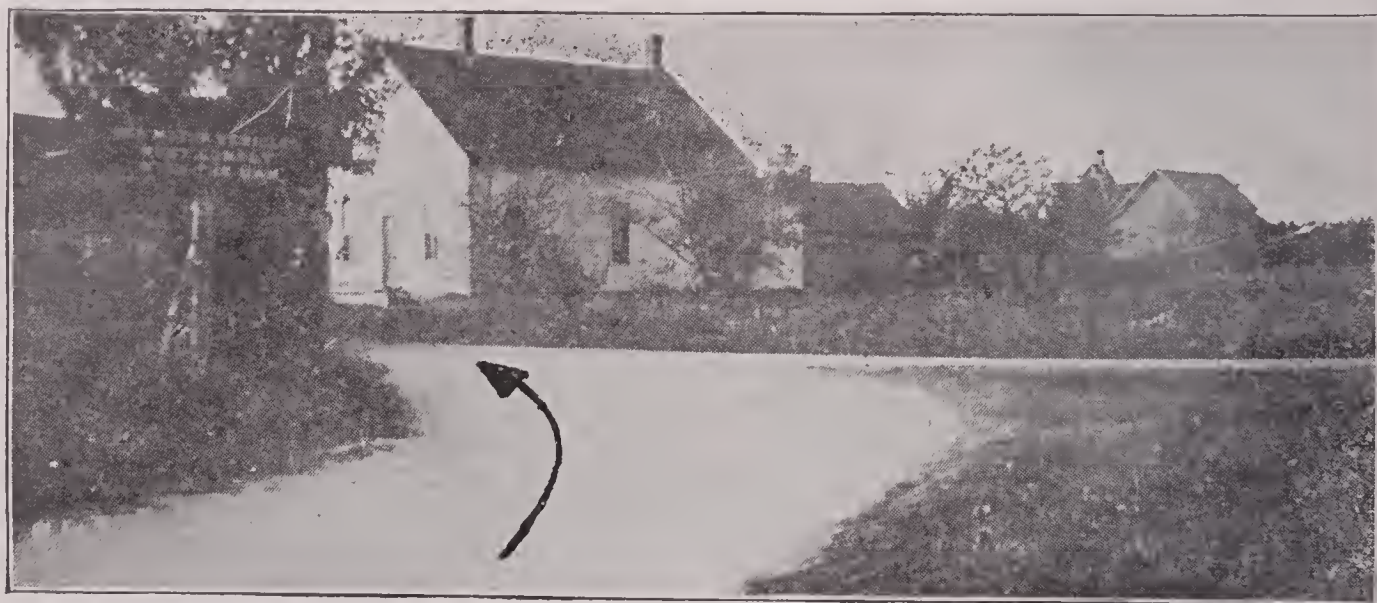
Memo .....

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No. 526



WHEELER

Turn LEFT entering Wheeler. Look out for disguised bumps  
just beyond turn. Next turn at street's end, five-tenths of  
a mile. Reduce speed in village.

No. 525



Turn RIGHT, North-West. Next photo at "S" turn, six-tenths of a mile.

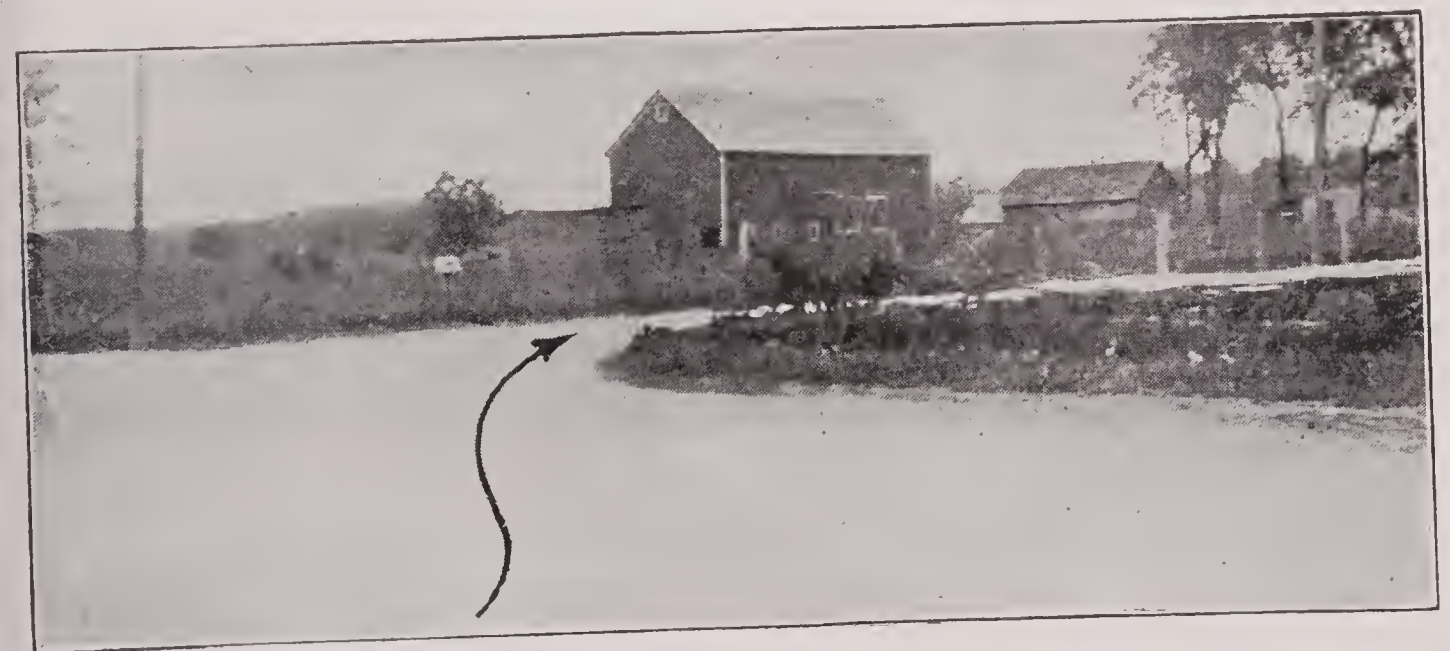
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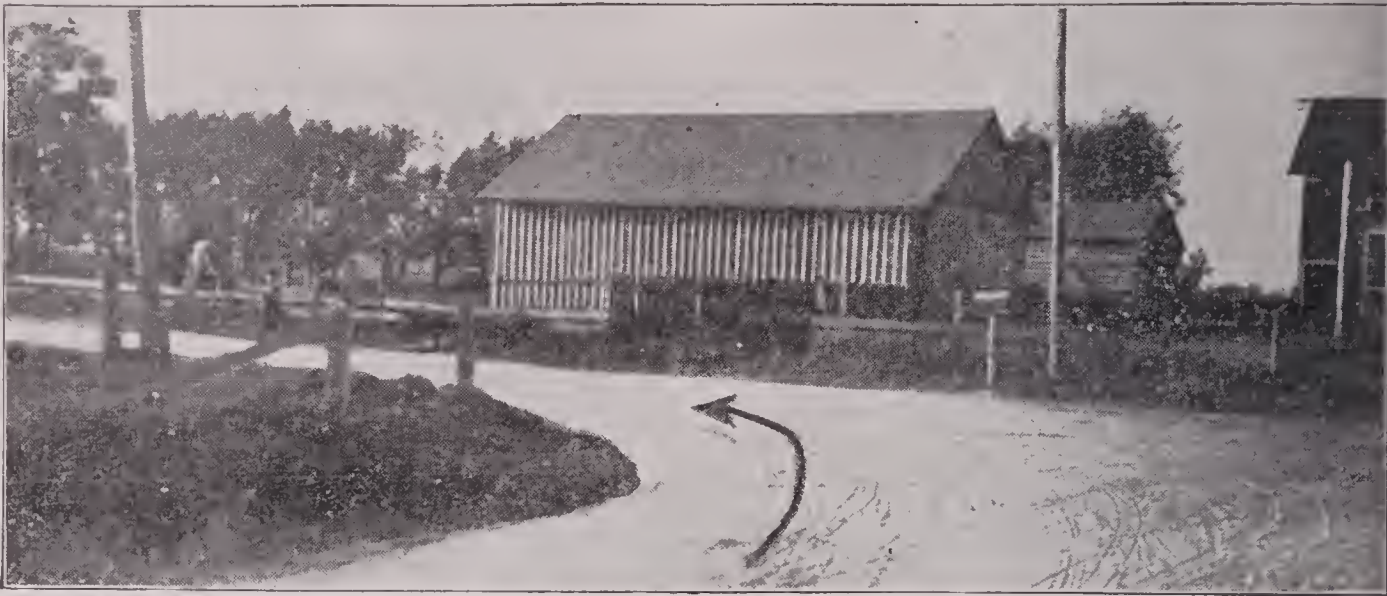
No. 524



Continue going North after making "S" turn. Follow wires.  
Next turn at road's end, one mile.



No. 523



Turn LEFT, West. Follow wires. Next turn Hobart, three and one-tenth miles.

Memo .....

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No. 522



Turn LEFT and go South to street's end, then right. Next photo two-tenths of a mile.



No. 521



Turn LEFT, South. Hobart depot on left, turn right after passing depot. Next turn in Hobart, three-tenths of a mile.

Memo .....

No. 520



HOBART

Turn RIGHT, North-West. Follow the wires. Next photo Highlands, eleven and three-tenths miles.



No. 519

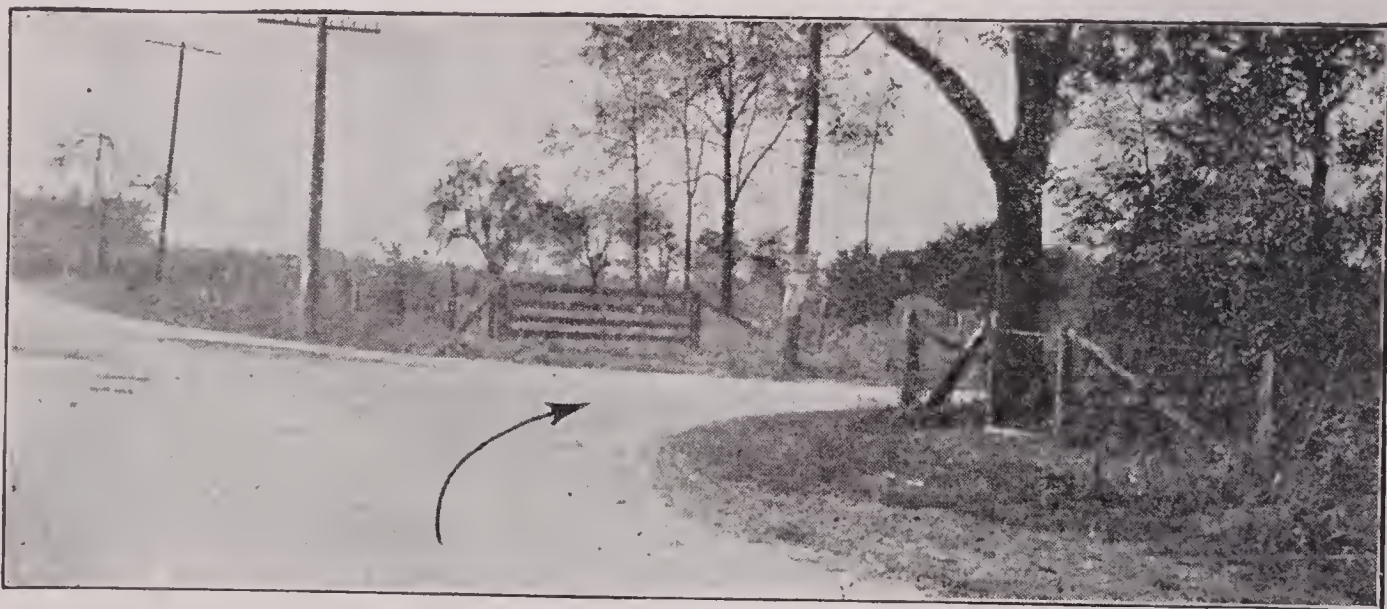


### HIGHLANDS

Turn LEFT, West. Next turn two and three-tenths miles.

Memo .....

No. 518



Turn RIGHT, North. Road-house on left. Next turn two and three-tenths miles.



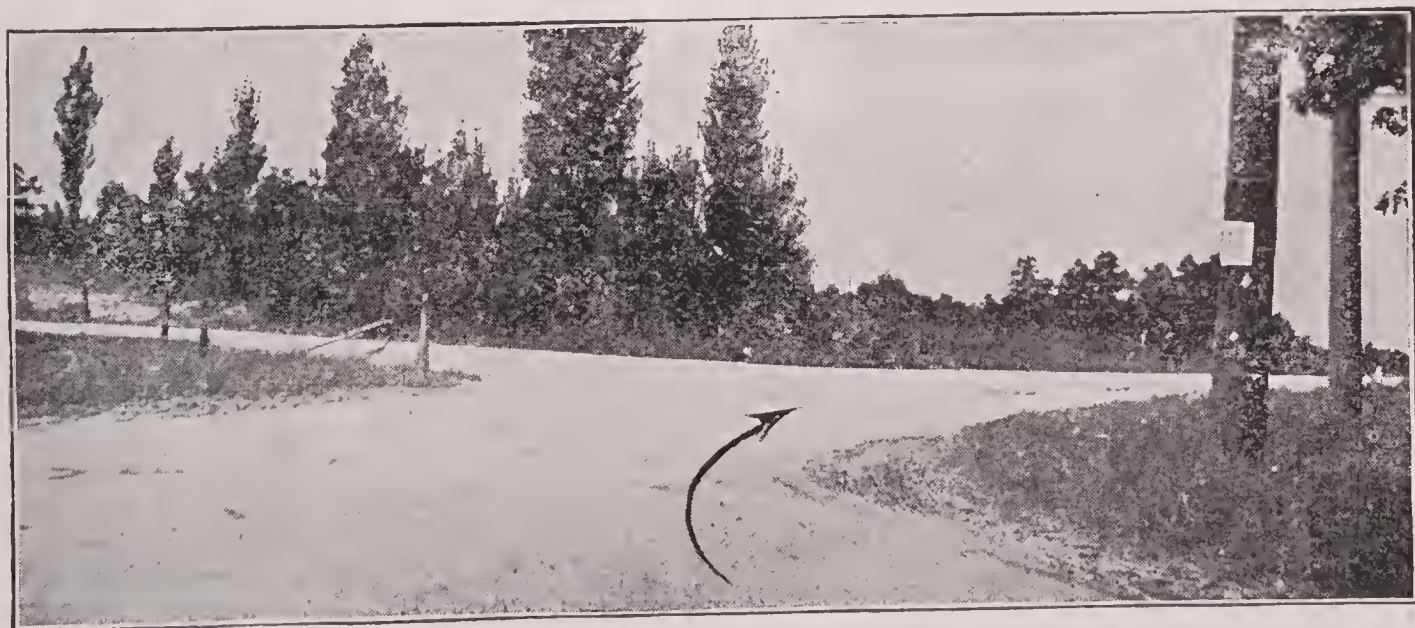
No. 517



Turn LEFT, West. Saloon on right at turn. Next turn five-tenths of a mile.

Memo .....

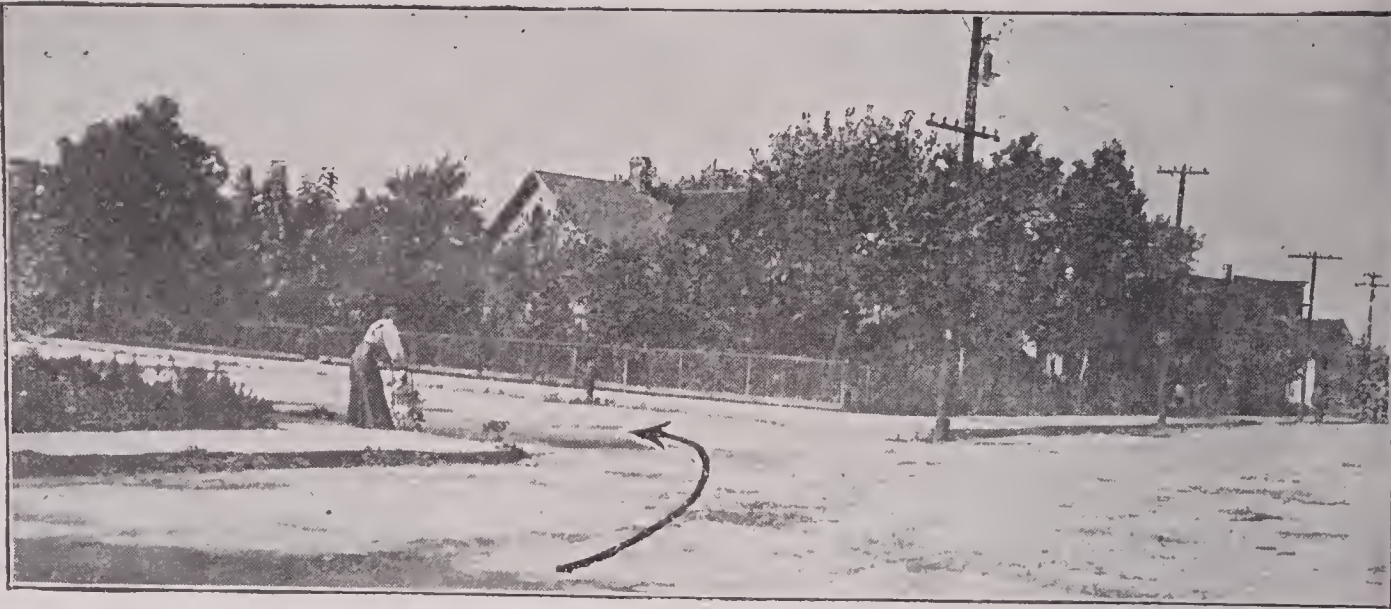
No. 516



Turn RIGHT, North. Next turn at Lafayette School, one and three-tenths miles.



No. 515



Turn LEFT, West. Lafayette School on right. Next turn one mile.

Memo .....

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No. 514

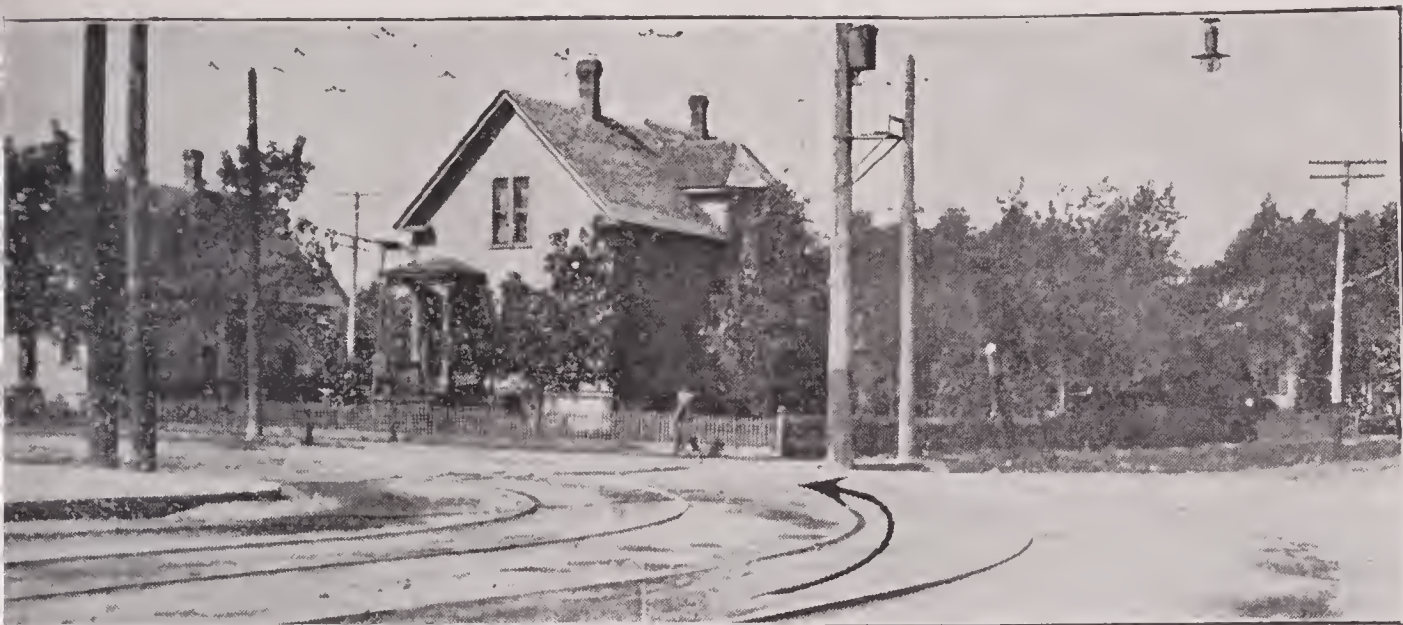


HAMMOND

Turn RIGHT, North. Turn right from Sibley Street to Homan Avenue. Half a block beyond turn is the Majestic Hotel and Cafe. The management extends first class hotel facilities to automobile parties. Next turn one mile.



No. 513



Turn LEFT and go West. Go one block west and turn with car tracks. Next turn four miles.

Remo .....

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No. 512



Turn LEFT, North-West. Follow car tracks to Ewing Avenue, two and one-tenth miles.



No. 511



Turn RIGHT and go North, Ewing and Indianapolis Avenues. Follow car tracks across bridge to 92nd Street and Buffalo Avenue, one and eight-tenths miles.

Memo .....

No. 510



Turn LEFT, 92d Street, South Chicago. Continue to Exchange Avenue. Next photo six-tenths of a mile.



No. 509



Turn RIGHT, Exchange Avenue, statue of Columbus on left. Next photo 83d Street, one mile.

Memo.....

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No. 508



Turn LEFT. Follow macadam to Jeffrey Avenue, one mile.



No. 507



Turn RIGHT, Jeffrey Avenue, follow macadam North.  
Next photo two miles.

Memo.....

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No. 506



JACKSON PARK.

Enter park, turning LEFT upon first drive.

No. 505



Turn LEFT. Lagoon and stone bridge on right.

Memo.....

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No. 504



Turn RIGHT. Lagoon on right.



No. 503



Turn LEFT, red-tiled rest building on left. Tennis court and Golf links on left.

Memo .....

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No. 502



Turn RIGHT, small police box on left.

No. 501



Turn LEFT, red-tiled boat building on right. Leave park. Continue straight West upon Midway Drive, passing under Illinois Central Railroad viaduct.

Memo.....

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No. 500



### MIDWAY DRIVE.

Keep STRAIGHT AHEAD, crossing Cottage Grove Avenue trolley, and enter Washington Park, turning right, passing administration buildings of parks on right, follow drive left to long, low building on left. (Refectory.)



No. 499



Keep to RIGHT and North. Refectory on left. Leave park at 51st Street. Grand Boulevard five-tenths of a mile.

Memo .....

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No. 498



STRAIGHT AHEAD. Leave park at Grand Boulevard and 51st Street, passing statue of Washington. Next turn two miles, South Park Boulevard and 33rd Street.



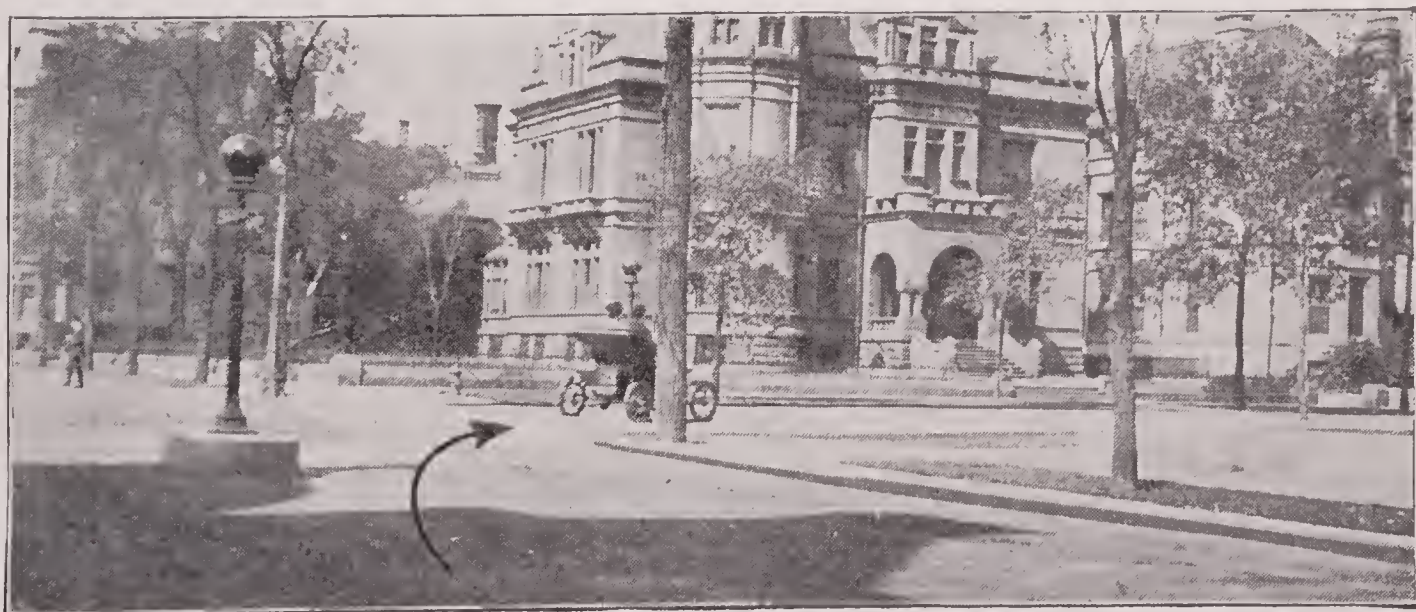
No. 497



Turn LEFT and go West, South Park Boulevard and 33rd Street. Next turn Michigan Avenue and 33rd Street, four-tenths of a mile.

Memo .....

No. 496



Turn RIGHT and go North. Michigan Avenue and 33rd Street last turn.



No. 495



## NEW SOUTHERN HOTEL

MICHIGAN AVENUE AND 13th STREET, CHICAGO, ILL.

FINISHING POINT of Photo-Auto Maps in Chicago, Ill. is The New Southern Hotel, situated so convenient to "Automobile Row," it is really considered the very best Hotel in Chicago for automobile tourists. A more delightful place for visitors in Chicago could not be conceived. Their every convenience and comfort is studiously provided for. Splendid Cafe, Restaurant and Grill Rooms in connection. Good garage accommodations may be had one block south of Hotel.

Memo.....

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OF TOURING THAN A SET OF

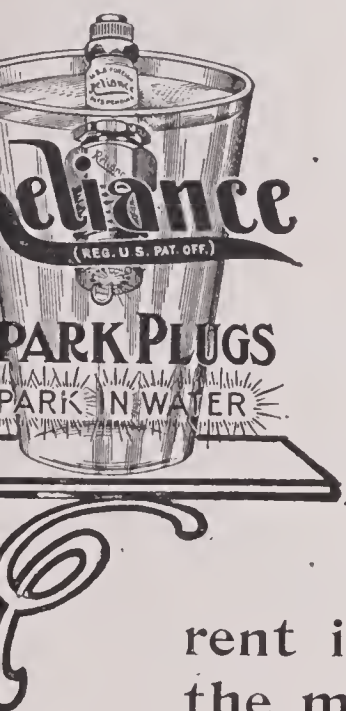
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For all kinds of Leather,  
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**THE EMPIRE MANUFACTURING COMPANY, AKRON, OHIO**

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An acid cure process that vulcanizes the cement  
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**YOU ARE ON YOUR WAY IN A MOMENT**  
—and there is no hard work about it either, doesn't  
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to the finest quality rubber.

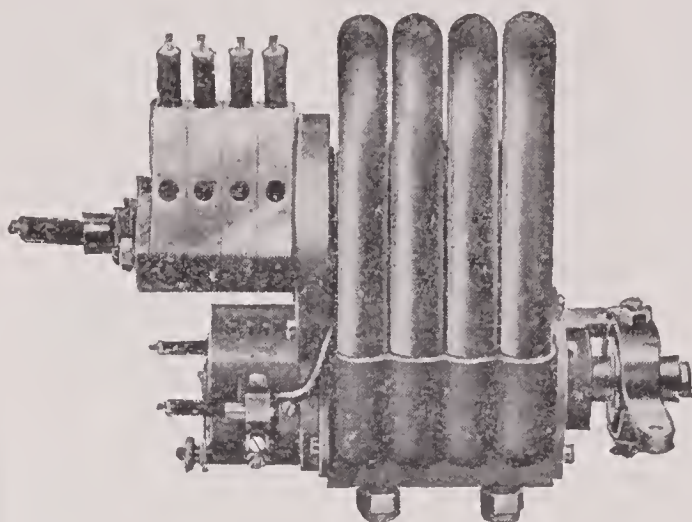
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Write us about the "Akron" Tire Boot and  
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# A HEINZE MAGNETO

Will make a new motor  
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## HEINZE ELECTRIC CO.

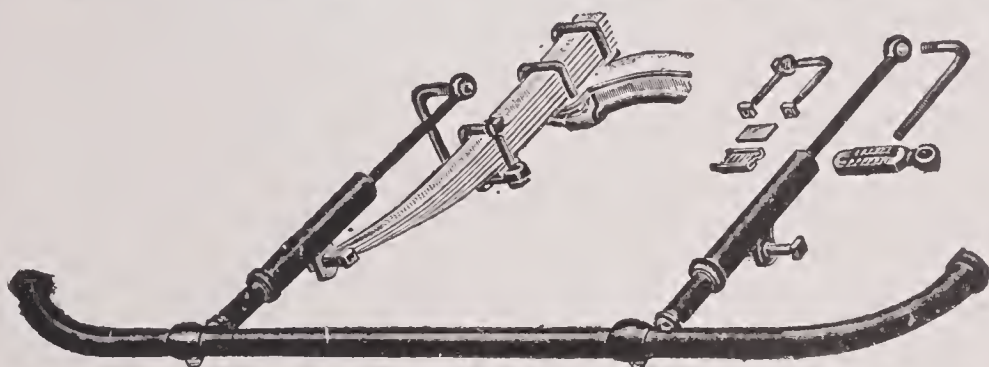
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Western Distributors

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## ROCHESTER SAFETY LOCK FOR AUTOMOBILES



*"A Lock that Locks"*

It is not necessary to drill your steering bar full of holes. Only one hole to drill and the lock is ready to place in position. Interchangeable combination. THIEF PROOF. Absolutely keyless. Ask your dealer or write direct for descriptive matter.



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ROCHESTER, IND.

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Radiator and Water Jacket through corrosion,  
when it can be prevented for so small a cost.

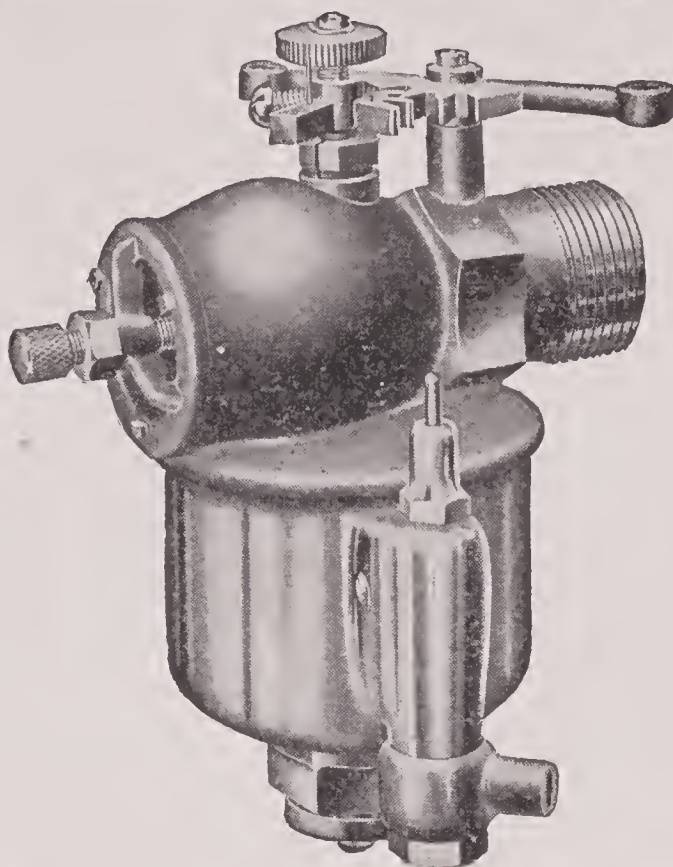
#### PREVENTS AND REMOVES

DIRT, RUST and GREASE from ENGINE  
WATER JACKETS and RADIATORS, CREATES  
a PERFECT CIRCULATION of the WATER  
and a COOL RUNNING ENGINE.

Sold by all Auto Supply Stores and  
Garages, or direct from

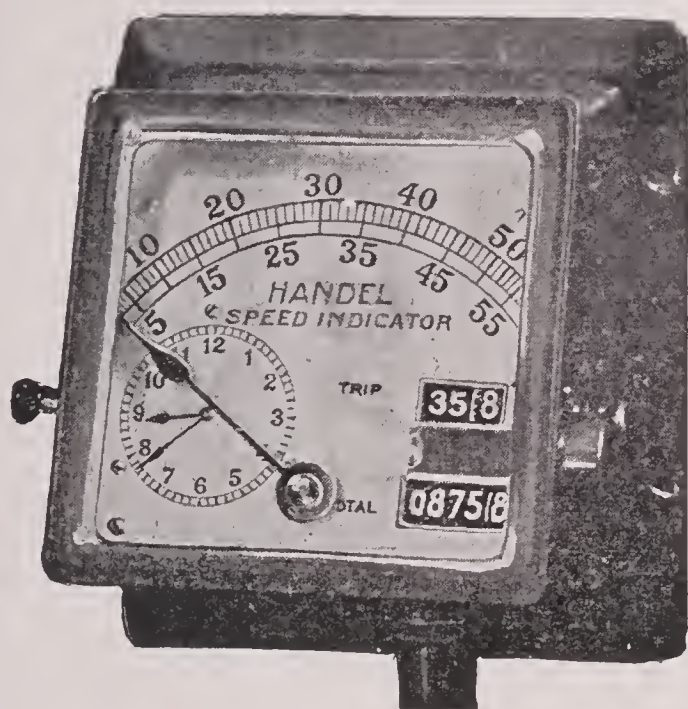
**The Nonkoroda Co.,**  
25 and 27 New Chambers St., New York

## MODEL "C" HEITGER CARBURETER



Made in all regular sizes. Special types for Ford and Buick  
runabouts. All guaranteed to give satisfaction or money back.

**HEITGER CARBURETER CO.**  
225 W. South Street, INDIANAPOLIS, IND.



## Handel Speed Indicator

It is absolutely accurate

It is simply and compactly  
made

It does not get out of order

It stands the hardest usage

It is neat in appearance.

It is easily attached

It is guaranteed for five years

The hands do not waive and  
wobble.

**LOUIS HANDEL**  
MANUFACTURER AND SALES AGENT

176-180 GRAND STREET

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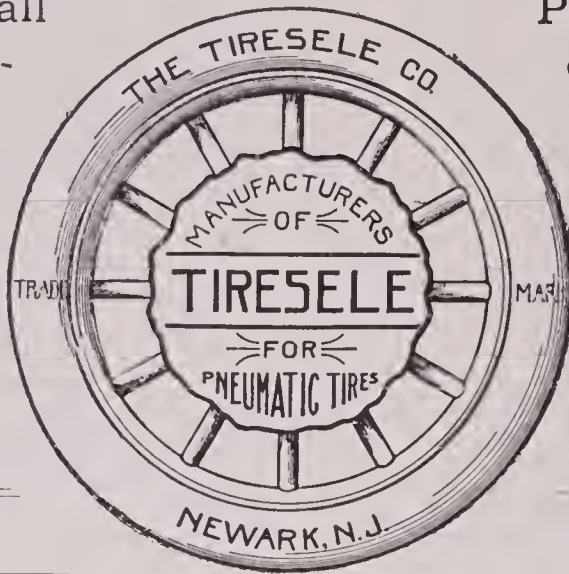
**NEW YORK CITY**



# TIRESELE

PREVENTS DELAY—LINGER AND WAIT—

takes care of all  
tured tires—with-  
Shoe. Also Motor  
and all Pneu-  
last as long as  
gum up or get  
in any way  
canizing. Only  
wheel. Price,



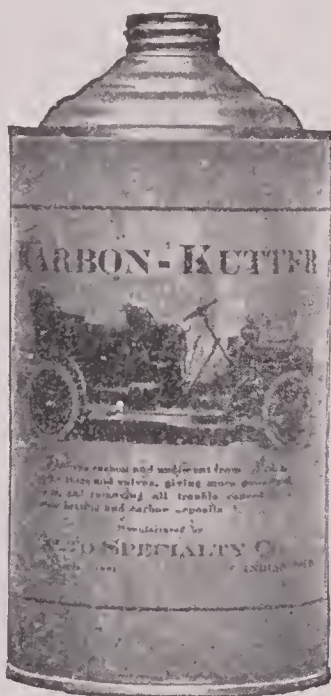
Porous or Punc-  
out removing the  
Cycles, Bicycles  
matic tires—  
tube—will not  
hard. Does not  
prevent vul-  
two oz. to auto  
\$2.50 per wheel.

WRITE FOR

BOOKLETS.

**THE TIRESELE CO., Manufacturers**  
**53-55 Bank Street, NEWARK, N. J.**

Sold by MOTOR CAR SUPPLY COMPANY, CHICAGO, ILLINOIS



## KARBON KUTTER

**WILL SAVE YOU MONEY**

Cleans thoroughly all carbon and sediment from motor  
without injury to any parts.

**GARAGE MAN'S CHARGE** for tearing  
down motor and scraping carbon, ten  
hours - - - - - \$6.50

**OUR CHARGE**—1 qt. KARBON KUTTER - - - - - 1.00  
Saved - - - - - \$5.50

A set of Scrapers free with each order for one dozen quarts.

**AUTO SPECIALTY CO.**

330 NORTH ILLINOIS ST. - - - INDIANAPOLIS



**AUTOMOBILE BRAKE BAND LINING**

HAS A REINFORCED  
CUSHION SUR-  
FACE THAT TAKES  
UP ALL SUDDEN  
JARS AND PERMITS  
THE RIVETS TO BE  
COUNTERSUNK,  
THUS BRINGING THE  
WEAR ON THE LIN-  
ING AND NOT ON  
THE RIVET HEAD

**GRIP-ON**  
*Spells Economy*

For further particulars write

IT IS SOLD UNDER AN  
ABSOLUTE GUARANTEE

**THE NEW YORK LEATHER BELTING COMPANY**  
EXCLUSIVE MANUFACTURERS

51 Beekman Street  
NEW YORK

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CHICAGO

When passing  
through

**Evansville**

drop in and let  
us serve you

The finest Garage  
in southern Indiana.  
Our terms are right,  
and we don't care  
who knows it.

**THE FELLWOCK  
AUTO & MFG. CO.**

No. 3 Upper Fourth Street  
**EVANSVILLE, IND.**  
Opposite Court House





# The Tokheim Gasoline Outfit

Outfit consists of DOME SELF - MEASURING, PRICE COMPUTING PUMP with Tokheim Patent Priming Chamber, Drip Pan, Gauge Rod and Locking Device. Tanks furnished in any desired capacity.

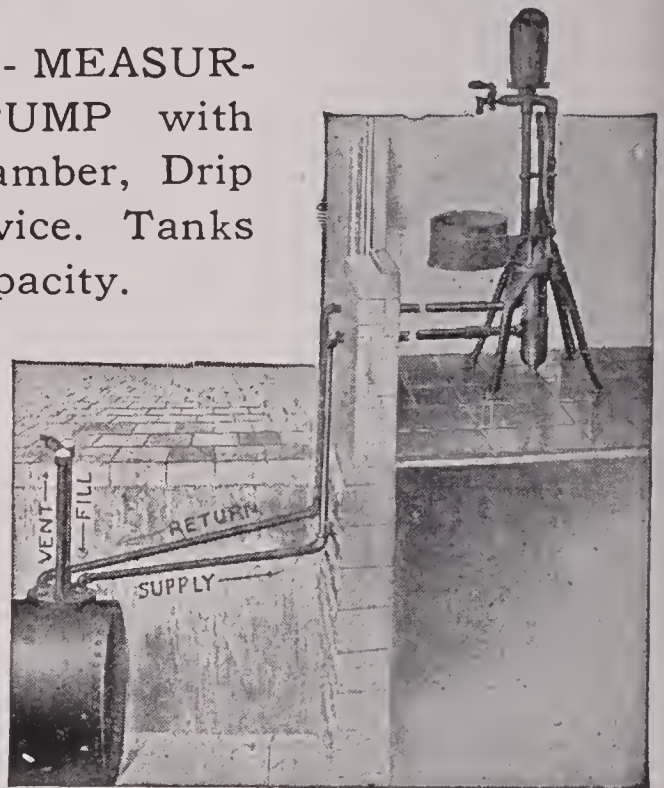
Pump can be furnished with Special Three-Way Discharge Valve and with Counter which registers the amount discharged up to 9999 gallons and repeats.

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We manufacture twenty-five styles of SELF-MEASURING OIL OUTFITS.



Dome Outfit No. 4.

**THE TOKHEIM MFG. CO., CEDAR RAPIDS, IOWA**

## THE "MULTO" SOCKET RATCHET WRENCH

We make Wrenches all sizes from 5-16 to 5 in. sq., 5-8 to 5 in. hex.

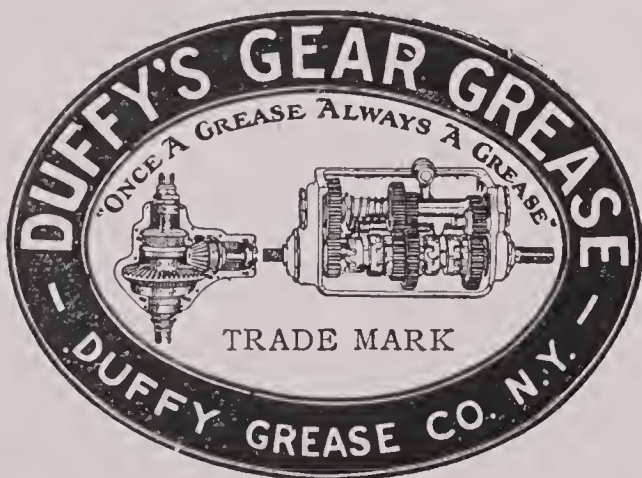
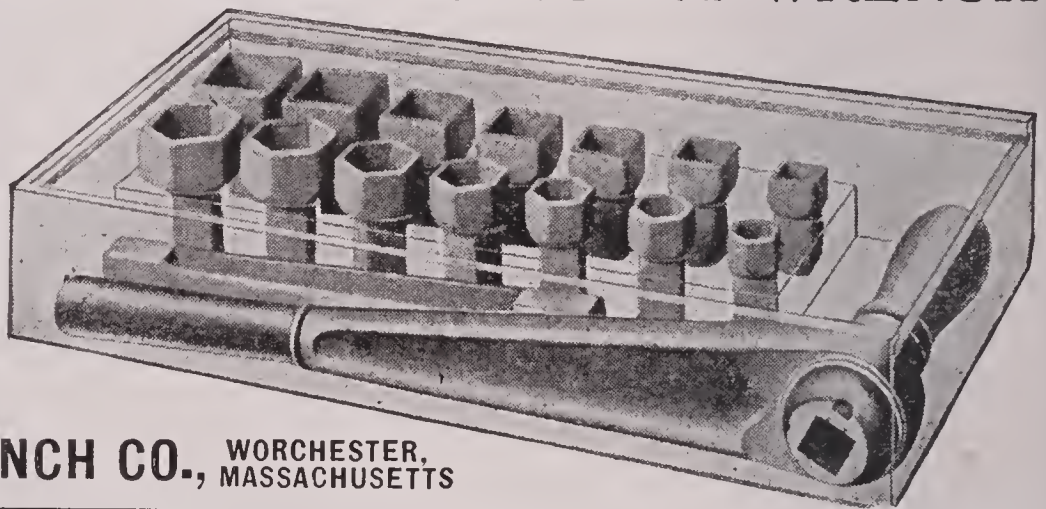
This half-tone is from a photograph, showing our "Multo" Socket Wrench. Each Wrench with its fourteen sockets is packed in a substantial covered box.

All our Ratchet Wrenches are reversible and work right or left handed at pleasure without removing the Wrench.

All kinds and sizes.

Send for catalogue.

**LOWELL WRENCH CO., WORCHESTER, MASSACHUSETTS**



The use of "DUFFY'S" proves our claim  
"ONCE A GREASE,  
ALWAYS A GREASE"

No waste or flushing on the brakes.  
Not affected by weather conditions.  
Used wherever a grease is used.

Try it

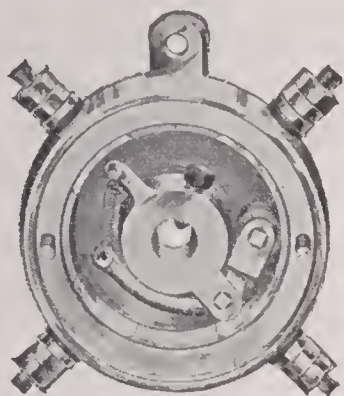
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New York, N. Y.

# Timers and Distributors

OF EVERY KNOWN TYPE  
FOR EVERY KNOWN SERVICE

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We are specialists in this line and our experience and manufacturing facilities enable us to turn out large quantities for engine builders and dealers at very attractive prices. Jobbers and dealers write us for prices. Agents wanted in the West and on the Coast.

The Altemus Manufacturing Co.

42d AND CHESTNUT STREETS

PHILADELPHIA, PA.

TRADE MARK  
*Raybestos*

## FRICITION FACING

Is made IN ONE PIECE from asbestos.

Is impregnated in such a manner that it is proof against heat, oil and grease.

Is an ABSOLUTELY DEPENDABLE Brake Lining. You owe to yourself to see that your brakes are lined with it, if you want to have complete control of your car on the steepest grades.

**ROYAL EQUIPMENT COMPANY**

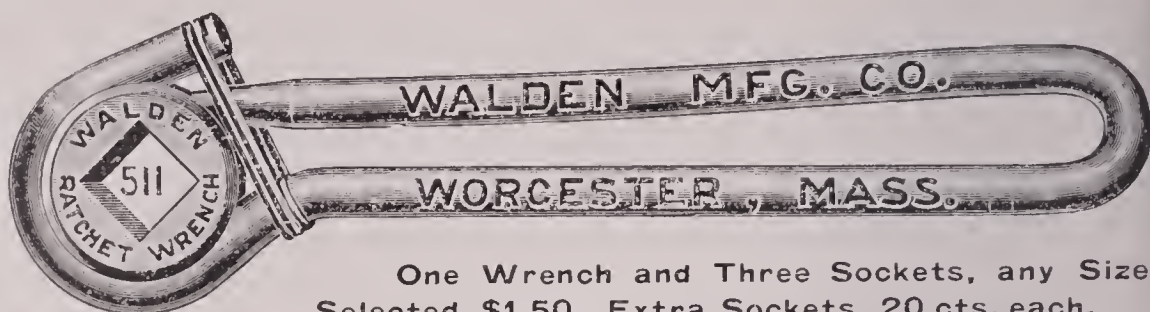
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STEEL SOCKETS FIT  
No. 511



One Wrench and Three Sockets, any Size  
Selected, \$1.50. Extra Sockets, 20 cts. each.

Hexagonal Sizes Only  
to Fit Heads

No. 06	$\frac{3}{8}$
No. 08	$\frac{1}{2}$
No. 09	$\frac{9}{16}$
No. 010	$\frac{5}{8}$
No. 011	$1\frac{1}{16}$
No. 012	$\frac{3}{4}$
No. 014	$\frac{7}{8}$
No. 015	$1\frac{5}{16}$
No. 016	1
No. 017	$1\frac{1}{16}$
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THE ONLY THREE-PIECE RATCHET  
WRENCH. NOTHING TO GET OUT OF  
ORDER. SIMPLEST POSSIBLE TOOL.  
THE HANDLE IS WIRE—BUT IT CAN'T  
BREAK—IT WON'T BEND—IT WILL STAND  
THE STRAIN—A STRONG, SERVICEABLE  
WRENCH, THOROUGHLY WELL MADE;  
Best of Selected Stock; Nickel Finish.

For Tire Lugs

No. 28	$\frac{1}{2}$ "	Hex.-----	\$ .35 Each
No. 29	$\frac{9}{16}$ "	Hex.-----	.35 Each
No. 212	$\frac{3}{4}$ "	Hex.-----	.40 Each

WE MAKE SPECIAL WRENCHES

WE WANT YOUR INQUIRIES



The Auto Polish of Quality.  
Restores the shine and surface to the  
body, leather trimmings, cushions  
and top, prolongs the life of the finish  
and greatly improves the appearance  
of the car.



The Metal Polish with the Elbow  
Grease in the Can.  
More Polish, Less Work.  
Wipes Freely, Contains no Acid.  
Imparts a brilliant lustre to all Metallic  
Surfaces.

SOLD BY ALL FIRST CLASS DEALERS IN AUTOMOBILE SUPPLIES

If your dealer hasn't got them in stock, write us for our

Thirty-Day Trial Offer

THE CLEANOLA COMPANY

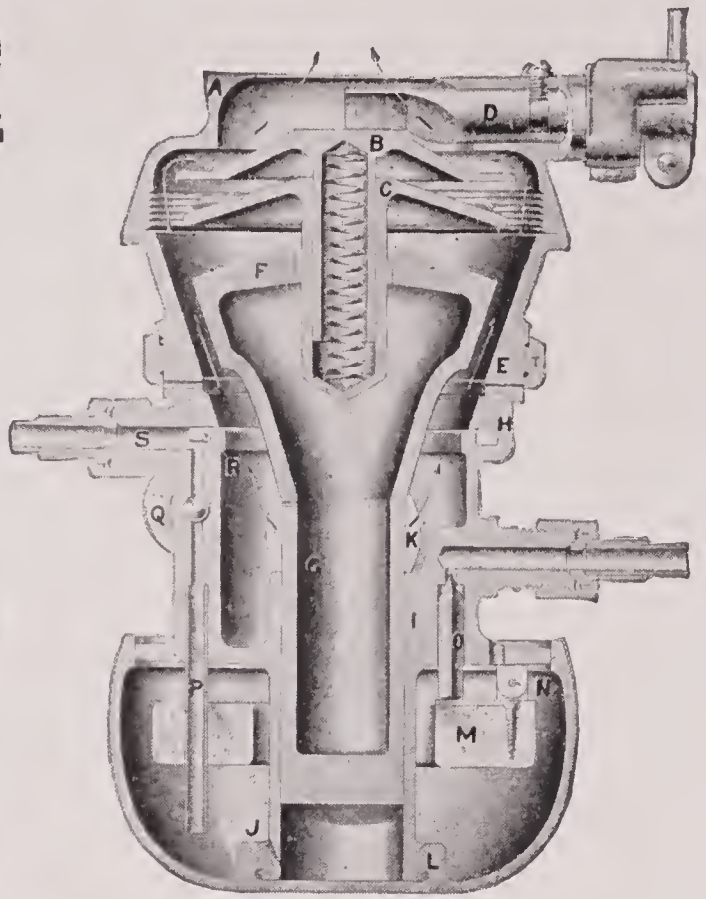
Fulton Building  
PITTSBURG, PA.

53 West Van Buren Street  
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# New Principle

THE

# Stewart Precision Carburetor



Sectional View.

You want the maximum of **POWER**  
on the minimum of **FUEL**.

You want quiet running and  
a **UNIFORM MIXTURE** at all speeds.

THE

## **STEWART PRECISION CARBURETOR**

will get you these results better than any instrument  
you have ever used, or your money will be refunded.

### **NEW PRINCIPLE.**

The proportioning of air and gasoline is accomplished by **gravity**, acting on the one moving part, there being no **springs**.

### **THE RESULT**

is a consistent performance at all times. Write  
for descriptive matter

**Alfred C. Stewart Machine Works,**  
**LOS ANGELES, CAL.**



# FOUR GOOD THINGS

## MOBO AUTOMOBILE CLEANSER

is made as good as automobile soap can be made. It has a substantial body. Therefore it cleans easily, quickly and thoroughly. MOBO is also absolutely free from uncombined alkali. Because of this it works without injury. These things about MOBO mean much. They mean clean, bright cars, also long life to varnish and paint. Therefore we suggest—try MOBO—in 50c and \$1.00 cans.

## SHOFO HAND CLEANSER

is made of Castile Soap, powdered Pumicestone and green Olive Oil. These three SHOFO ingredients show a quick, easy and effective working out. To explain, the Castile Soap washes, the Pumicestone scours and the Olive Oil keeps the skin soft. This SHOFO way of hand cleansing is ease, speed and delicacy combined. It is better than all others. Therefore we say—try SHOFO. In 10c and 20c cans.

## HYGLO METAL POLISH

is different from all other metal polishes. It is one that eliminates the wait-while-it-dries feature. Also that rub-rub-rub which does tire. Instead the HYGLO way is quick, easy and sure. Then further a HYGLO shine is always even and brilliant, and one also that stays long. In that regard a HYGLO shine is distinctly long-lived, and the only one that is a real all-day shine. 15c, 25c and \$1.50 cans.

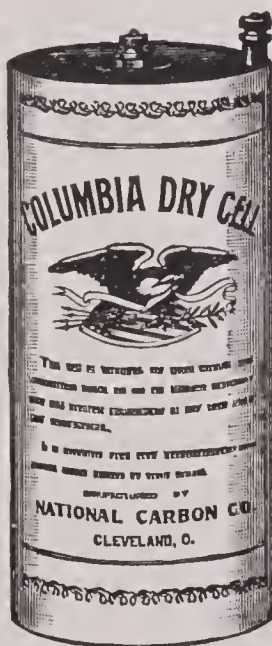
## LEVO WOOD POLISH

is good for cars minus part of the fine varnished finish they had when new. That because LEVO fills in digs and covers up bare spots. At the same time LEVO gives a polish equal to a new coat of varnish, which does not wear off quickly, or come off in washing, because LEVO is an oil preparation and is waterproof. So if your car shows varnish departed, but not enough to warrant the paint shop—Try LEVO, and it will make the car look new. In 25c, 50c and \$1.00 bottles.

**JOHN T. STANLEY - MAKER - NEW YORK**

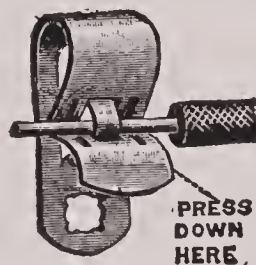
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**MOTOR CAR SUPPLY CO., 1451 MICHIGAN AVE., CHICAGO**



## BE GUIDED

by other MOTORISTS and  
equip your MACHINE with  
**COLUMBIA**  
or **COLUMBIA IGNITOR**  
“RED TOP” dry cells.



Don't accept SUBSTITUTES which may spoil your trip.  
INSIST on getting COLUMBIA cells. They cost NO MORE.

No Extra Charge for Fahnestock Clips

**NATIONAL CARBON COMPANY**

**CLEVELAND, OHIO**

### On Dunlop Type

Over 8,000 miles with a Cadillac on Diamond Dunlop type tires and no tire trouble at all. That's what I think of the Diamond Dunlop Style of tires.

R. W. Emerson,  
Central City, Ia.

# What's Your Car ?

### On Fisk Type

My experience with Diamond Fisk Type or "bolted on" tires on my Stevens-Duryea has been so satisfactory that I shall certainly have none but Diamond in future.

N. L. Ely,  
Peekskill, N. Y.

### Big or Little

## Diamond

### Heavy or Light

## WRAPPED TREAD TIRES ARE FOR YOU

### On a Large Car

I can well imagine that you receive many testimonials for Diamond tires, but I wish to add mine—that Diamond tires on my Peerless Car have been nothing short of extraordinarily fine.

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Indianapolis.

### Much Better

### Cost No More

Quick Detachable

Regular Clincher

Mechanical (Dunlop)

And Fisk Types

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As a physician using a runabout in practice, I drive the car very hard and the tires must bear the brunt of it. Am pleased to say I find Diamond tires much better than all the others I have used.

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West Orange, N. J.

*Ask For Our Tire Instruction Book — It's Free*

**THE DIAMOND RUBBER CO.** AKRON, OHIO

All supply houses sell

**DYKES'**

## Never Kreep Tire Shoes



This shoe is specially prepared with a cement coating, ready for instant use. Clings to inside of casing, same as if vulcanized.

**John L. G. Dykes Co.**  
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## HAZARD OF NIGHT DRIVING

is reduced to the minimum only if you use reliable burners. The safety of both car and passengers depends then on this apparently unimportant little unit. "A chain is no stronger

than its weakest link." No matter how good your lamps or gas supply, unless you have the best burner procurable. When your lamps are new from the factory, they are equipped with some style of Alco burner, for all important lamp makers use ALCO. Then why not insist on Alco again when replacing broken and worn out burners? All dealers sell—we do **not** sell to consumers direct.

Ask Dealer.



Alco DeLuxe Genuine German Lava. All gas sizes. Hexagon base (Pat. Dec. 24, 1907) permits easy installation with wrench or pliers.

**AMERICAN LAVA COMPANY**  
CHATTANOOGA, TENN.





Always  
See  
the  
Road

Have a  
**Williams  
Shield**

put on your  
car while stop-  
ping over night.

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A Touring Car Shield When Top is Up      A Roadster Shield When Top is Down  
All in One      Fits All Cars      Nothing Like It

**20th Century Motor Car Supply Co. ... Sole Mf'rs.**

Garage Department one block from Oliver Hotel.      Open day and night.      Machine Shop and Supplies  
121-125 South La Fayette Street, South Bend, Ind.

**NEVER MIND THE PUNCTURE**

**THAT CAN BE REPAIRED WHEN YOU GET HOME**

## **A Detroit Emergency Wheel**

attached to the rim of the wheel carrying the  
disabled tire, will enable you to drive for miles

**EASY TO PUT ON      LIGHT WEIGHT      REASONABLE PRICE**

Can be attached in less than one minute without removing the punctured tire

Ask Your Dealer for the **Detroit** Emergency Wheel



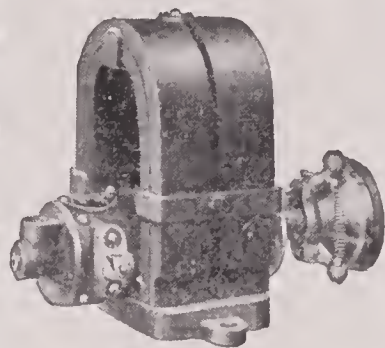
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**Ford Magneto = \$25**

For Ford Models N. R. S.

**Maxwell Magneto \$25**

For Maxwell Two-Cylinders



Does the work as well as any \$75 Magneto. Does it far better than any cheaper Magneto. No special coil required. Works with your present equipment. Brackets and everything necessary for installing furnished. The only Magneto backed by a 30-day free trial. Not an experiment. There are thousands in use. Write for catalog M. Which have you, Ford or Maxwell?

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## TIRES REPAIRED and VULCANIZED

Blowouts repaired. Sectional repairs made. Casings retreaded and recovered. Tube punctures vulcanized. Motor cycle tires repaired.—We give you a **SQUARE DEAL** and **YOUR MONEY'S WORTH**. We can guarantee our repairs, because we use the best materials, employ efficient workmen, and operate our well-equipped shop under up-to-date methods. **We Sell New Tires.** Our Aim is Our Motto: "Right and Reasonable."

### THE MODEL VULCANIZING COMPANY

Phone: Calumet 531

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ON AUTOMOBILE WEARING APPAREL

*Means the Best of Its Kind At Any Price*

ALL LIVE DEALERS CARRY THE LINE

Protector Coats, Dusters, Rubber Shirts  
Cravenettes, Leggings, Corduroy Clothing

**THE DUCK BRAND CO. ::= CHICAGO**



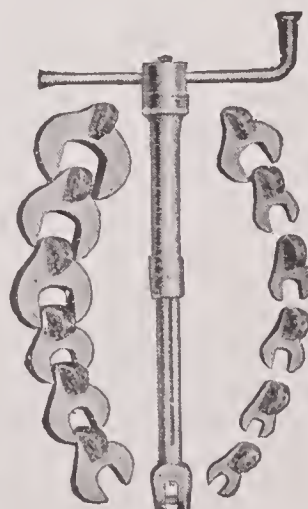
## **REX** Adjustable **Wrench Sets**

Extension Ratchet handle; Interchangeable heads; adjustable instantly to any position. Fits any nut, bolt or cap screw, square or hexagon, on any machine. All parts drop forged from high carbon steel and **ABSOLUTELY WARRANTED** against breakage.

**YOU NEED THIS WRENCH**

**REX WRENCH CO.**

Hathaway Bldg, Summer St. **BOSTON, MASS.**





THE WORD **Thermoid**  
MEANS THAT GOODS SO BRANDED  
ARE ABSOLUTELY CORRECT

**Thermoid**  
BRAKE BAND LINING

**Thermoid**  
TIRES AND INNER TUBES

MANUFACTURED BY THE

**Thermoid** RUBBER COMPANY  
TRENTON, N. J.

## THE ROAD TO SATISFACTION



Equip your car with the GRAY AUTOCHIME. The Pioneer and Aristocrat of exhaust-blown signals. Some unscrupulous jobbers and dealers are offering imitations at prices from \$4.00 up. The Autochime sells for \$10.00. It's more than worth the difference.

See the name on the bell.

GRAY-HAWLEY MFG. CO. DETROIT, MICH.

Superior Motor Car and Motor Boat Accessories

## **DIXON'S** **GRAPHITE** **MOTOR** **LUBRICANTS**

Supply lubrication for practically every part of the car; cylinders, transmissions, differentials, bearings, etc. The service these lubricants render is due to DIXON'S TICONDEROGA FLAKE GRAPHITE — the finest lubricating graphite the world produces. Use Dixon's and increase your car's efficiency.

JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.



# IN YOUR TRAVELS

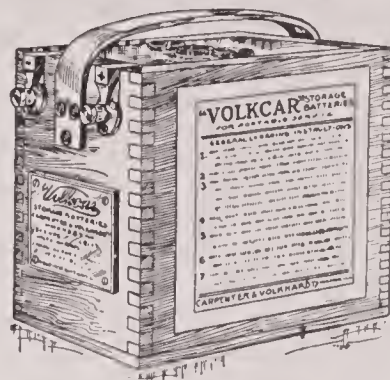
YOU WILL NOT FIND A STORAGE  
BATTERY TO EQUAL THE

## VOLKCAR

TRY ONE AT OUR EXPENSE

# CARPENTER & VOLKHARAT

2443 MICHIGAN BOULEVARD, CHICAGO, ILLINIOS



### THE PRINCIPLE OF THE PETRE CARBURETTER

is exclusive. No other carburetter on the market has an automatic-ally controlled needle valve which apportions the exact amount of gasoline for the given amount of air, making the **quality** of the mixture **constant**, whether running five or fifty miles per hour, up or down grade.

Notice that the needle valve and the air inlet are so affixed to the **same lever** that any movement of the air valve gives a correct and proportionate movement of the gasoline inlet, thus insuring a perfect mixture at all times, under all conditions.

The Petre Carburetter is guaranteed to

1. Start your Engine not later than the 3d quarter turn.
2. Give Greater Flexibility in Slow Running.
3. Greater Speed—By increasing **Quantity**, without changing the **Quality** of the mixture.
4. Greater Power in Hill Climbing—Same reason.  
(25 per cent. more power on topping a hill—and we can prove it.)
5. More Mileage—Less Consumption—Mixture is never too Rich.

**THE PETRE CARBURETTER CO.**  
1839 Euclid Ave., Cleveland, O.



## Tire Problem Solved!

No remedy has been found that would heal punctured tires without injuring the rubber, until "PERMANIT" was discovered and put in practical use.

# "Permanit"

is imported from Europe and in use there for years and now in this country on the market for over a year and a half.

See what our customers say about it:

A prominent physician and ex-president of the Board of Trade writes:

"My Dear Sirs—I have used the auto car in the tires of which you put the material you call "PERMANIT," since November 21, 1907. It has not been necessary to pump up the tires since, although we have taken out of the tires several nails, tacks and pins. It appears to me to do the work."

We have many more similar to this and which are open to your investigation.

Refuse substitutes—let someone else try imitations. Why buy imitations when we can furnish you with the genuine? Do not run any risk by trying something which has not been fairly tested to stand all kinds of weather and roads. "PERMANIT" has stood all these severe tests.

Sounds unbelievable, but it really does it. Besides, keeps the tires in good condition and increases their life. Demonstrated before Board of Governors Harrisburg Motor Club with great success.

In your own interest write today and get full particulars and price and discounts to dealers, or send 53c for a sample carton which is sufficient for a bicycle tire.

## THE ADOLF KARL CO.

245 Washington St. Newark, N. J.

SOLE AGENTS: Alabama and Georgia—H. Craig Chapman, Title Guarantee Building, Birmingham, Ala. District of Columbia and Maryland—Jacobson Bros. The Luttrell Co., 1028 Connecticut Ave., N. W., Washington, D. C. Illinois—Legnard Bros., Waukegan, Ill. Nebraska, Kansas and Colorado—Dr. J. W. Puckett, Geneva, Neb. New York—Permanit Co., of New York, Thoroughfare Building, 57th Street and Broadway, New York.



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Ignition Plugs Stay Right The Longest

TRADE MARK REG. U. S. PAT. OFFICE



## "VULCAN"

TYPE OF STA-RITE PORCELAIN IGNITION PLUGS

Metric, No. 6, Single, Adjustable Sparking Point.  
Price - - \$1.25

A. L. A. M., No. 8A, Separable, Outside Sparking Points.  $\frac{1}{8}$ -inch—18th. Original Auto-car size. Price - - \$1.25

Winton, No. 15A.  
Price - - \$1.25  
Extra Long.

### PART LIST

Porcelain Tube and Cap with Bolt, Point, Packings, Nuts and Springs. 50 cts.

With our double porcelains, the contraction and expansion is uniform, and cap protects inner heated tube. Practically no breakage or leakage with "VULCAN" STA-RITES.

### GUARANTEE:

We agree to repair, free of charge, perpetually, any Sta-Rite Plugs returned to our factory, at any time.

## "VENUS"

TYPE OF STA-RITE MICA IGNITION PLUGS

A. L. A. M., No. 28A. Separable, Outside Sparking Points.  $\frac{1}{8}$ -inch—18th. Original Auto-car size. Price - - \$1.50

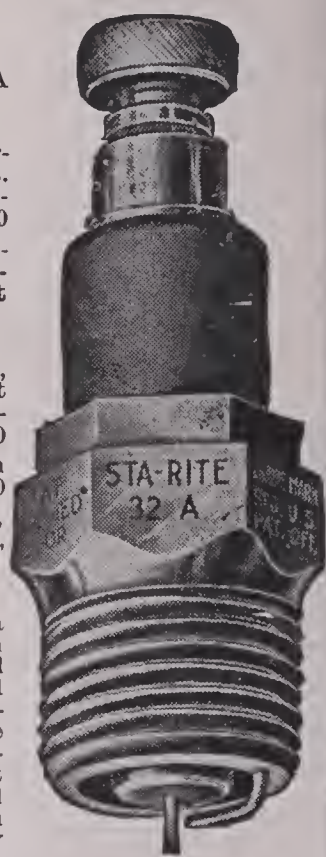
Metric, No. 48. French Metric. Separable, Outside Sparking Points. Copper Gasket Spun over shoulder.  
Price - - \$1.50

Thor, No. 51. Same as No. 48, except with special long bolt to fit Thor Motorcycle terminal. Price - - \$1.50

Hedstrom Plug for Indian Motorcycles. Price - - \$1.50

Mica Insulator, complete, threaded to fit Nos. 28A, 32A, 48, 51 and Hedstrom.  
Price - - \$1.25

All "Venus" Sta-Rite Mica Plugs are constructed with solid bolts from Bessemer steel rod, which do not stretch, and mica does not loosen. The inner India mica core is made with no shellac or other sticking substance. The perfect mica washers are compressed under great pressure, and machine turned to a finely glazed surface, which with ample air space is practically soot and waterproof, and cannot be broken in service.



No. 32 A.  
Half-Inch Separable  
Price - - \$1.50

No. 4A. Half-Inch Separable Double Porcelain  
Price - - \$1.25

## THE R. E. HARDY COMPANY

INCORPORATED 1900

Factory, 201 37th Street, BROOKLYN, N. Y.

Fisher Building, CHICAGO



## Get a Stepney And Get There— Anywhere

No matter what kind of roads you have to travel, and no matter what kind of pneumatic tires you ride on, you are liable to have a puncture or blowout at any time. If you try to repair it on the road, it takes time and work--dirty work, too. If you continue your journey without attempting to mend the tire you will ruin it, and tires cost money.

**Just Get a Stepney and you Won't Have to Do Either**  
you won't even soil your hands. Simply attach it to the rim of the injured tire. Anybody can do it. One use of the *Stepney* usually pays for the device, but it can be used interminably. Ask for the *Stepney* anywhere, and get it, or write for Catalog "A"

## Spare Motor Wheel of America, Ltd.

GEO. S. MORROW, Sales Manager

236 Michigan Avenue, Chicago



# The IMPERIAL

## Non - Explosive Gasoline Tanks



One of the most important features in storing explosive liquids is the question of Safety

The IMPERIAL Non-explosive Tank is safe in **every** particular. It is scientifically impossible to explode any tank or can fitted with our non-explosive devices. Our tank is just as safe above ground as the other tanks that are buried.

Our over-ground system lasts ten times as long as the buried tanks, you get no water in your gasoline by your tank absorbing dampness from the ground or from sweating.

Write for our catalogue and full particulars.

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## THE UNIVERSAL SAFETY TANK & CAN COMPANY

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CHICAGO, ILL.

PHONE, 3926 MONROE



# Empire Tires      Wear Longest

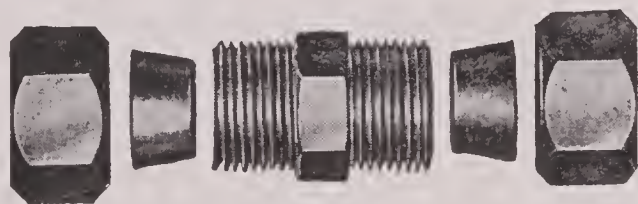
**EMPIRE AUTOMOBILE  
TIRE COMPANY, Trenton N. J.**

## BRANCHES:

**Newark**—264 Halsey St. **Detroit**—842 Woodward Avenue. **Boston**—292 Devonshire Street. **Chicago**—1305 Michigan Ave. **New York**—73d St. and Broadway; 148 Chambers St.

## AGENCIES:

**Pittsburg**—Consumers' Auto Supply Company. **Kansas City, Mo.**—Empire Tire & Rubber Co. **Atlanta, Ga.**—Dunham Rubber Co. **Cleveland, Ohio**—Motor Supply Agency Co. **Norfolk, Va.**—Wm. H. Grover. **Denver, Col.**—Denver Auto Goods Co. **Jacksonville, Fla.**—Savell Rubber Co. **Philadelphia, Pa.**—Penn Auto Supply Co. **Los Angeles, Cal.**—Pacific Electrical Works. **Buffalo, N. Y.**—Empire Sales Co. **Minneapolis, Minn.**—Empire Tire & Rubber Co. **Savannah, Ga.**—Harris Tire Co. **New Orleans, La.**—H. A. Testard. **Boise, Idaho**—Randall Dodd Auto Co. **Kansas City, Mo.**—Auto Specialty Co. **Portland, Me.**—Jas. Bailey Co. **Providence, R. I.**—Waite Auto Supply Co. **Toledo, Ohio**—W. G. Nagel Elec. Co. **Syracuse, N. Y.**—Central City Rubber Co.



## IMPERIAL COMPRESSION COUPLINGS

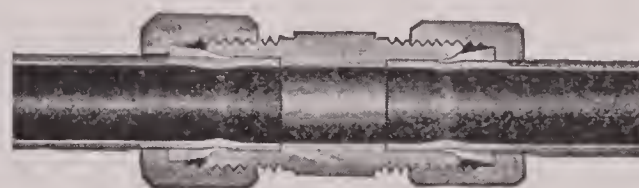
For connecting Copper, Steel, Brass and Aluminum tubing, without soldering, without flaring, without cement, or solder, especially adapted for Automobiles, Motor Boats and Gasoline Engines.

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Write for Samples and Prices.

**Imperial Brass Mfg. Co.**

245 S. Jefferson Street, CHICAGO



Patented Dec. 8, 1908.

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USE

*1851*  
**G & K**

TRADE MARK  
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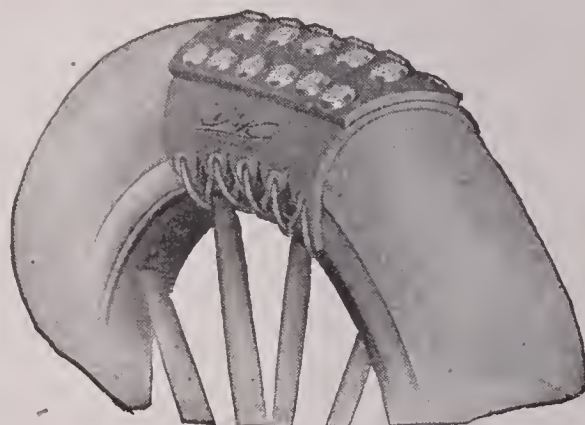
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They are an "ever ready" relief for blow out troubles.

Heat and cold, mud and water, will not injure them.

Made in three sizes, viz :

- No. 1. For 3-inch tire.
- No. 2. For 3½-inch or 4-inch tire.
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The Sleeve in position

Get them from your dealer or order direct from the manufacturers

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Up-to-date service. Full line of accessories and repairs.  
All leading makes of Tires, Presto-Lite Gas Tanks and  
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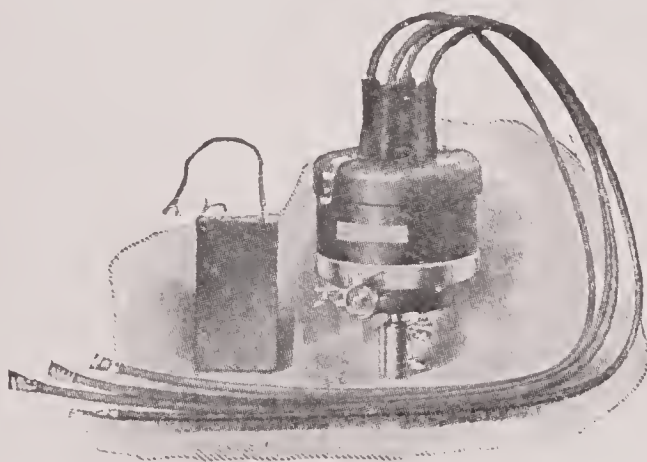
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You can install an American Igniter and make all connections in ten minutes. No trouble after that.

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MUSKEGON, MICH. NEW YORK, N. Y.

SEND US A TRIAL ORDER

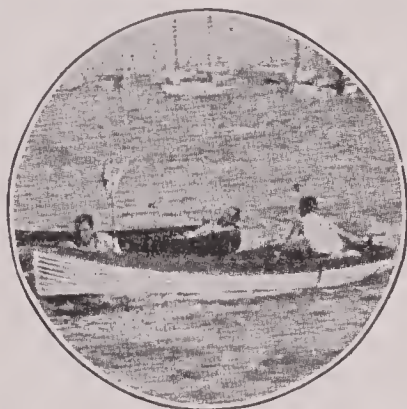




Seen by  
naked eye.



Same object, same  
distance, seen  
through ordinary  
field glass.



Same object, same distance, seen  
through Perplex Prism Binocular.

## The first improvement in Prism Binoculars

Eighteen power magnification (other powers in proportion), with a field 607 feet in diameter, at one mile distance, as bright from edge to edge and every detail as sharply defined as in an opera glass, is what you get in the

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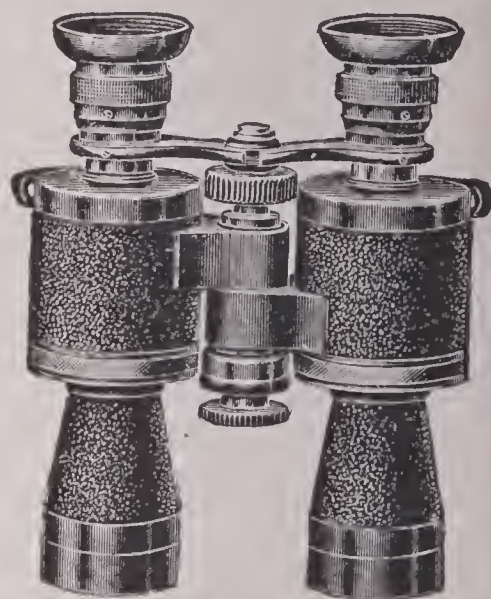
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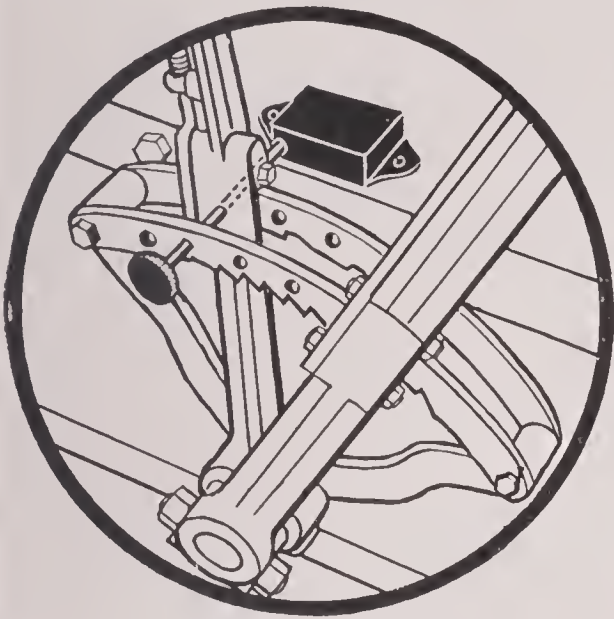
**Largest Auto Supply House  
in the World**

## MOTOR CAR SUPPLY COMPANY

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1451-1453-1455 MICHIGAN BOULEVARD, CHICAGO

# The Latest Invention!



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Are YOU the owner of an Automobile?

Here is something interesting for YOU.

Is your Automobile under good care?  
Have you stored your car in a Garage?  
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If so—DON'T WORRY!

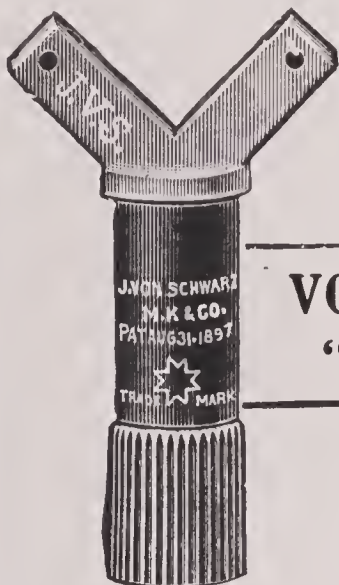
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because they will make your machine  
absolutely THIEF PROOF.

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"Perfection"



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CRESCENT  
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Efficiency, Accuracy and Durability

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Light :: Medium :: Heavy

## ABSOLUTELY CARBONLESS

Fluid Transmission Grease

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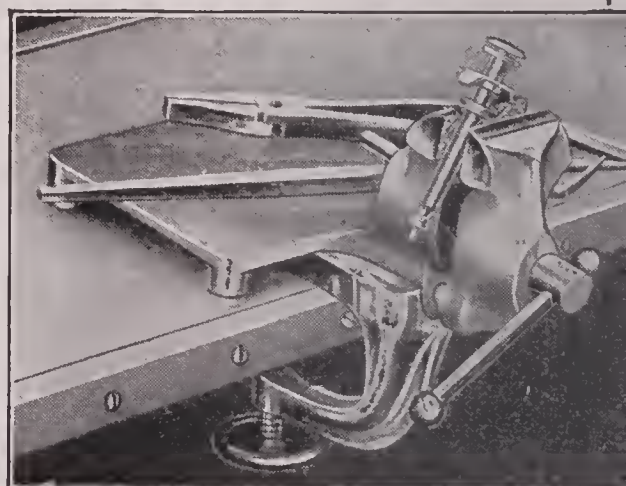
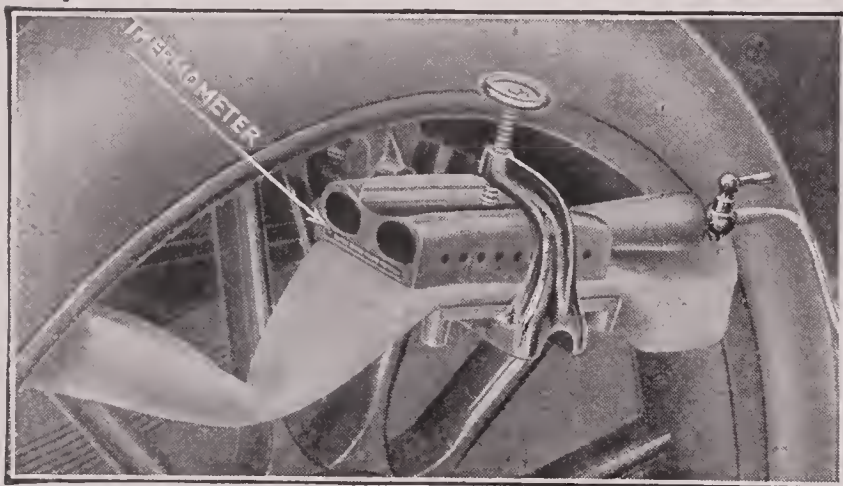
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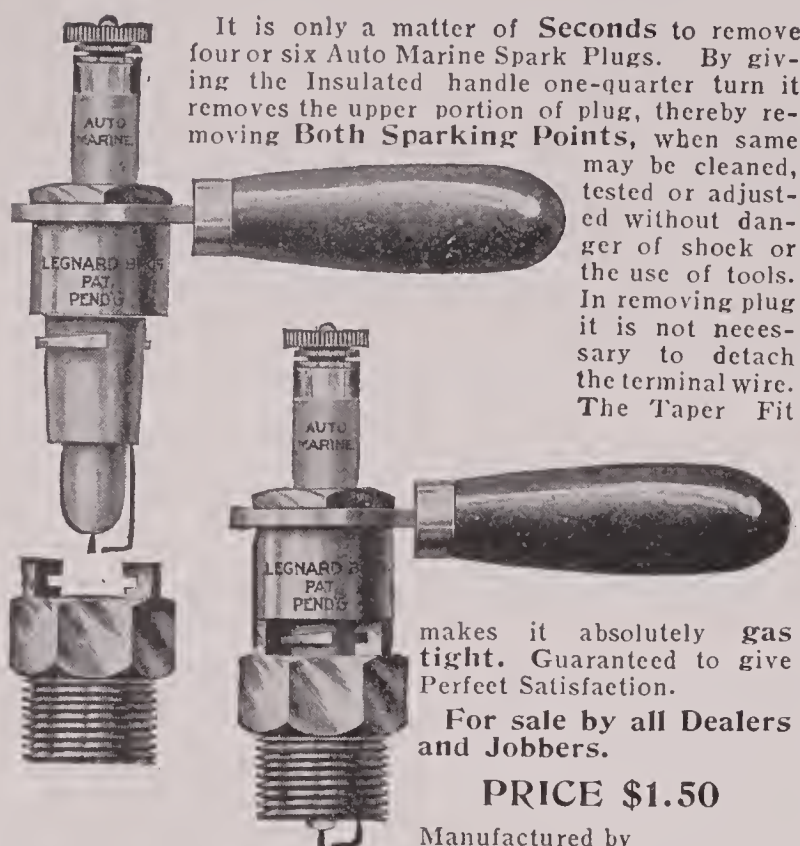
**The Reason** MoToR is now conducting one of the most extensive subscription campaigns that has probably ever been carried on by a similar publication. In order, therefore, to add 5,000 new subscriptions—entirely in addition to the maximum expected by the most exacting advertisers—MoToR, for a short time only, has determined to make ALL THREE special offers above.

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It is only a matter of **Seconds** to remove four or six Auto Marine Spark Plugs. By giving the Insulated handle one-quarter turn it removes the upper portion of plug, thereby removing **Both Sparking Points**, when same may be cleaned, tested or adjusted without danger of shock or the use of tools. In removing plug it is not necessary to detach the terminal wire. The Taper Fit

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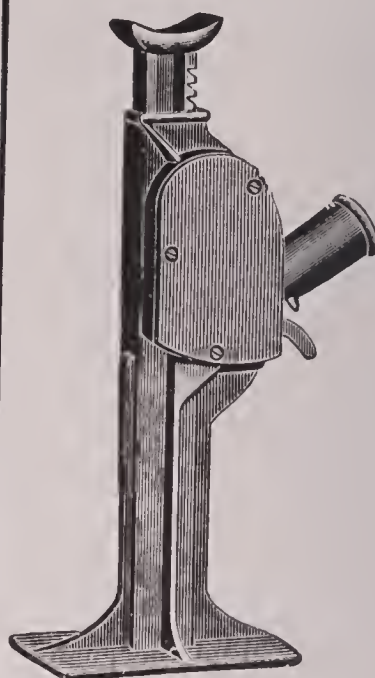
The ideal in automobile coats is realized in our coats equipped with our  
**"Presto" Convertible Collar**

Patented May 18, 1909

"A simple twist of the wrist" changes this coat from a handsome street coat with regular lapels, to a splendid military collar automobile coat, perfect protection against wind, dust and rain. Insist on a "Presto" collar on your coat.

**National  
Jack &  
M'f'g.  
Co.**

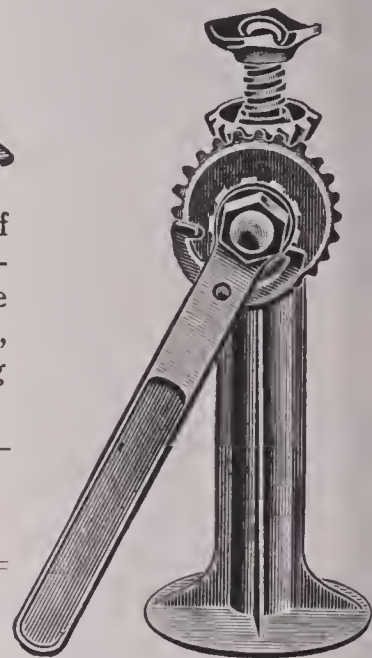
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Spark Plug  
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BOXES**



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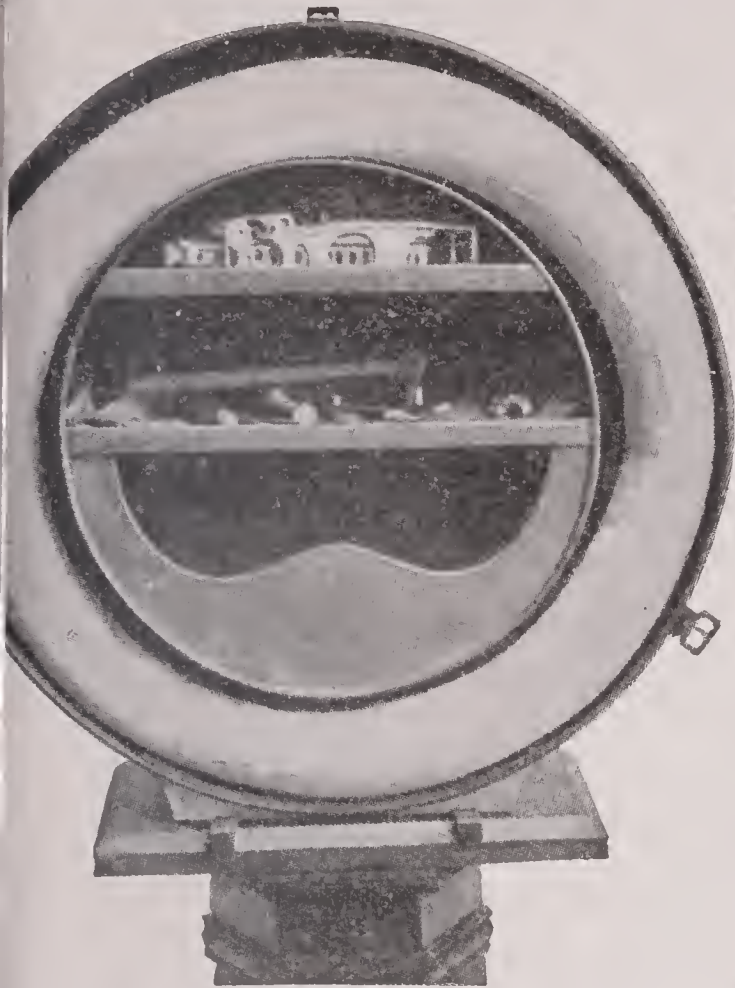
**FOR**

**CATALOG**

**THE GLOBE MACHINE & STAMPING CO.**  
CLEVELAND, OHIO



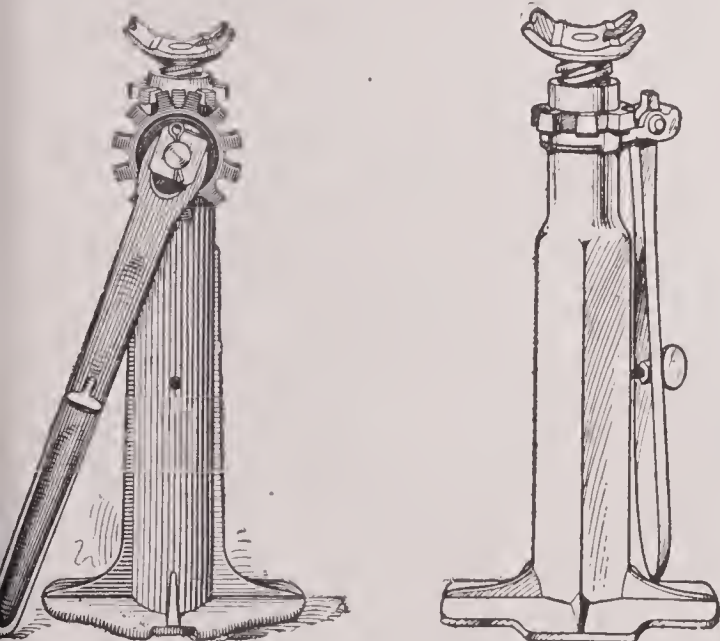
W TIRE, TOOL AND TOURING CASE



Cut shows case with cover removed, displaying tires, tools, etc. The lower space within the circle holds caps, gloves inner tubes—or any articles used in touring. The tire space takes two shoes, the upper spaces a full equipment, thus doing away with all other appliances carrying extras. The cost of the Dow Tire and Tool Case is much less than that of the many pieces of equipment needed if this case is not used on your car. Patent pending. MOTOR CAR SUPPLY COMPANY, Chicago Agents. E MERRILL MANUFACTURING CO., Sole Owners and Manufacturers. Old South Building. Boston, Mass.

## JACKS!

U. S. AND ATLAS AUTO JACKS  
Patent Allowed.



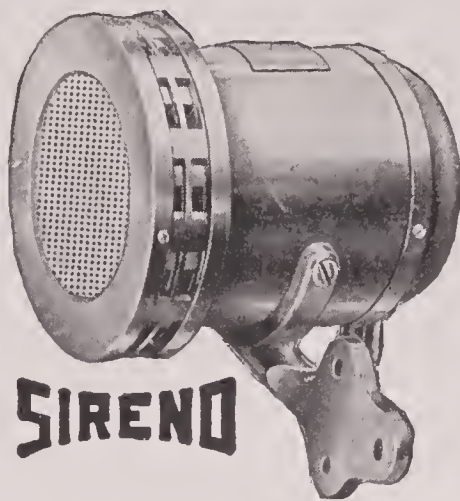
1907 Atlas Nos. 1, 2, 3.

U. S. Jack No. 1.

Height over all, No. 1 10 inches. No. 2, 11 3/4 inches. Weight No. 1, 5 lbs; No. 2, 6 lbs. The lever has an up and down motion. It is slotted at the end so as to move in or out, to engage from 1 to 4 teeth in the wheel. The head revolves on the end of the screw so that the jack can be worked at any angle or in cramped places. The head fits the truss brace, round or square axle. Raises any automobile with wheels 23 inches or over. You cannot have an accident with this jack. The screw is one inch in diameter. For quick work raise the screw up against the axle and turn the nut down until tight then two or three strokes of the lever raises the wheel. A good jack is just as essential as good roads. See that your car is equipped with either a U. S. or Atlas jack. Simple, durable, guaranteed. List price, No. 1 \$2.50; No. 2 \$3.00.

U. S. JACK COMPANY, 128 West Lake Street, Chicago.

## You Can Control This Automobile Horn Perfectly



This Sireno Electric Horn is so flexible that by varying the pressure on the switch you can produce a gentle purr for the city streets, or a blast that can be heard over a mile away in the country.

The Sireno produces a powerful, musical note. It starts instantly, yet the minute the switch is released a patented, magnetic brake automatically stops the motor.

### Electrically Operated

The Sireno is reliable, for it is operated by the regular six-volt ignition battery. It is independent of the engine—never fails to work—doesn't drain the ignition battery. And if you have a magneto, any six-volt battery will run the horn. The Sireno is built of the best materials and is beautifully finished. It is light—compact—easily put on your car in a few minutes.

The Sireno is ball-bearing throughout—self cleaning—perfectly protected from dust and water. It needs no care—has no vibrator—nothing to wear. And you can place the switch wherever you want it. Price \$35 complete.

### THE SIRENO JUNIOR

Built on the same principle as the Sireno, except that it is smaller—produces a lesser volume of sound—and has no automatic brake. A wonderful horn at \$25—suitable for any car. For summer touring, there is no better horn for any car than the Sireno Junior with the long Projector. Its note will carry for almost two miles on a country road. Price, complete, \$28.

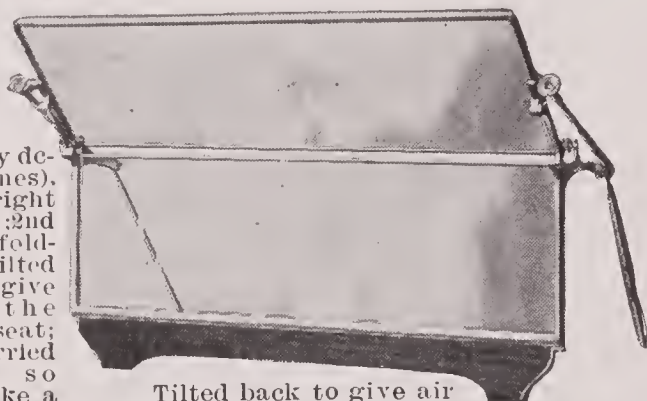
If your dealer hasn't the Sireno, send us \$35—or \$25 for the Junior—and let us ship you a Sireno. If you are not satisfied that it is the best horn made, return it to us. We will refund your money at once. But write immediately. We may not be able to fill your order if delayed. Address Department "S."

The Sireno Co., 39-41 Cortlandt St., N. Y.

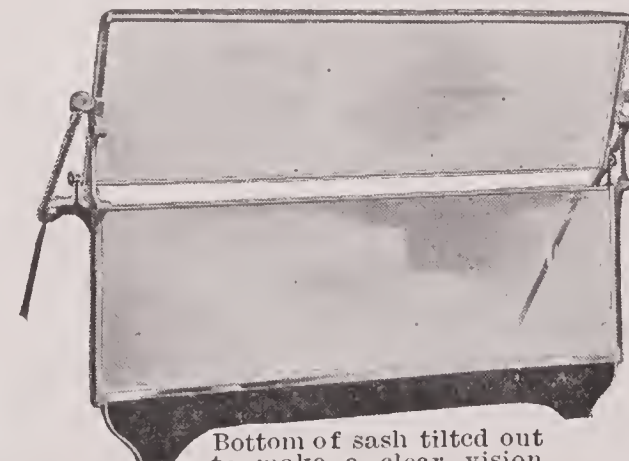
### SAFETY REQUIRES ABOVE ALL AN UNBREAKABLE FRAME.

Col. Sprague's New Air Cushioned "Leader" Wind Shield.

It can be rigidly held in four positions (the only desirable ones). 1st. Upright or closed; 2nd. Down or folded; 3d. Tilted back to give air to the back seat; 4th. Carried forward so as to make a clear space between the upper and lower sash, so you can see your way in rainy weather.



Tilted back to give air to people in rear seat and still keep out storm.



Bottom of sash tilted out to make a clear vision space in case of rain and still keep out the storm.

Our air cushion locking device works easily and positively and holds the shield rigidly in each of the above positions. It cannot get out of order.

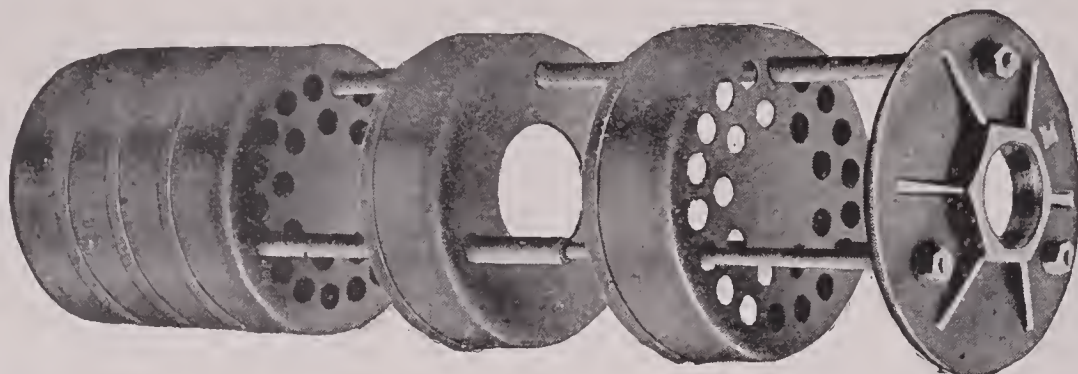
Do you know of any other shield that has all of these important features combined?

Catalog and price list sent on demand. N. B. All of our shields are made to fasten on the dash with clips. Where side standards are wanted we charge \$1.50 net extra, including dash fixtures.

THE SPRAGUE UMBRELLA COMPANY, Norwalk, Ohio.



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In ordering state size of engine cylinder and number, size of exhaust pipe and whether standard pipe, steel or flanged connection is used.

We recommend a 15 or 16 section for a 40 to 50 horse-power automobile engine.

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Prevents finish from cracking or staining. Absolutely no sediment. Positively no acids used. As a preservative, it has no equal. It dries quickly, softens the leather, and renders it waterproof.

For sale by all automobile supply and accessory dealers.

**WEISS POLISH WORKS**

Chicago, Illinois, U. S. A.

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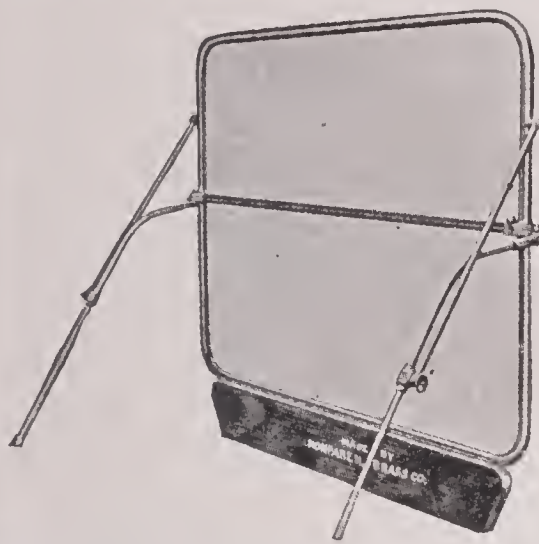
The Lock Flap insures your tire's against Water, Oil, etc.

Perfect Fitting.

**NATHAN NOVELTY MFG. CO.,**

84 to 90 Reade St.,

N. Y. C.



## The Nonpareil Folding Wind Shields

Selected Plate Glass—Solid Brass Tubing—Mahogany

Represents the Finest Product of the Wind Shield Art.  
Light, Durable and Will Not Rattle.

Furnished with Filler Board to cut for any make of car.

No. 25, Solid Brass Tubing, similar to cut, complete,  
\$35.00.

Equipped to car at our factory, or boxed F. O. B.

No. 35, Selected Mahogany, Brass Bound, \$25.00.

**NONPAREIL BRASS CO.**

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NO MORE HAND PUMPING!!!

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## A=B=C ENGINE-DRIVEN TIRE PUMP

Eliminates the use of **ALL** hand-pumps

Easily attached to **ANY CAR**

SMALL, LIGHT, CONVENIENT

110 LBS. PRESSURE IN 4 1-2 MINUTES

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**ARTIZAN BRASS COMPANY**

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Manufacturers of all Grades

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We are sole distributers of  
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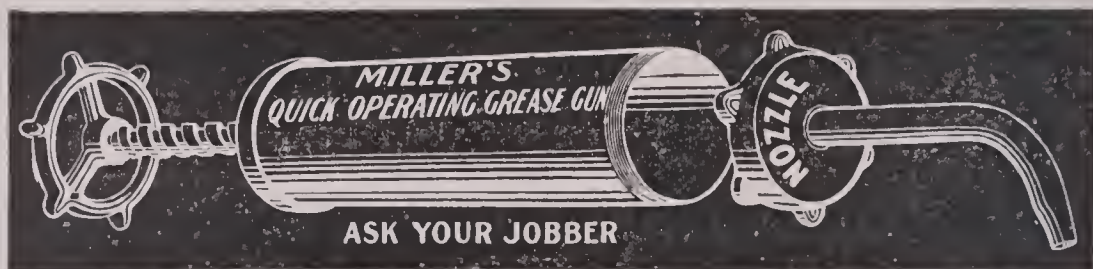
• Let us send you sample can and you will use no other Metal Polish



# MILLER'S STANDARD QUICK OPERATING GREASE GUN

FILLS A LONG FELT WANT

STRONG



RELIABLE

FILLED AND EMPTIED IN THIRTY SECONDS  
**\$2.00** FULLY GUARANTEED **\$2.00**

## PFANSTIEHL COILS

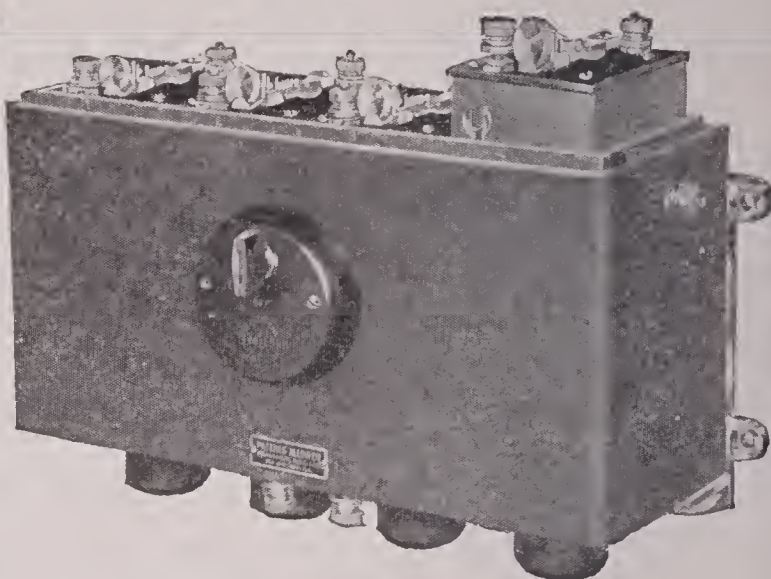
All windings guaranteed absolutely for five years. Constructed by our patented methods. The most advanced coil on the market. High grade workmanship. No "Freak" Features. Built along practical and scientific lines. The lowest priced strictly high-grade coil. Our pan-cake system of winding explains this.

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Uses ANY standard No. 6 Dry cell,  
 No wires, no binding posts,  
 All connection automatically made by  
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Series or Multiple-series at your option.  
 "Shut the Lid = = = That's All!"

**A. HALL BERRY, 97 Warren St., NEW YORK CITY**



(8 Cell Box)

MAKES TIRES LAST TWICE AS LONG  
 DOUBLES THE PLEASURE  
 OF AUTOMOBILING  
 FOR SALE BY ALL DEALERS  
**INNER SHOE TIRE CO.**  
 GRAND RAPIDS, MICHIGAN



The  
**"INNER SHU"**  
 Positively Makes



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A powdered Flake Graphite absolutely free from grit, that will not clog up oil feed pipes

Reduces friction, increases available \_\_\_\_\_ or lubricators horse power and assures cool bearings when used in lubricants.

## Walter D. Carpenter Company

39 CORTLANDT STREET

GRAPHITE

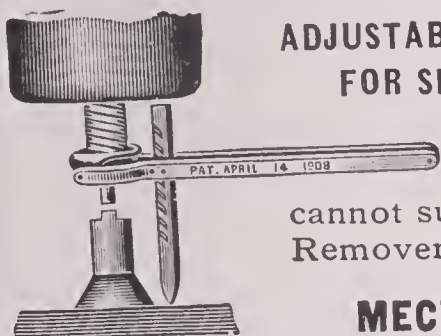
New York

GREASES

## TRIUMPH ADJUSTABLE VALVE REMOVER

Does the work with no side strain or bending of valve stem.

ADJUSTABLE AND NON-ADJUSTABLE BALL JOINT  
FOR SPARK AND THROTTLE LEVERS, ETC.



For sale by SUPPLY DEALERS  
throughout the United States, if your dealer  
cannot supply you send us P. O. order for \$1.00 and the  
Remover will be sent to you, delivery charges prepaid



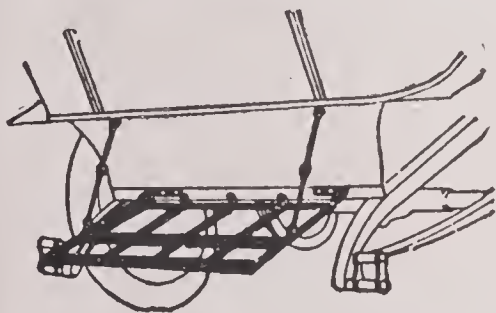
**MECHANICAL AND ELECTRICAL MFG. CO.**

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CHICAGO, ILL.

Write for Catalogue No. 10

## DOUBLE-FOLD AUTO TRUNK RACK



Made for service and in sizes to fit any car. Is made of light cold rolled steel, black enamel baked on. Will outlast and give better satisfaction than any Trunk Rack on the market today, in fact will outlast the car. The racks are made adjustable wherever possible and can be put on any car. They stand for efficiency, durability and reliability. If you want the best, most convenient and most substantial Trunk Rack on the market at a fair price write us. Money refunded if not as represented. Orders filled promptly.

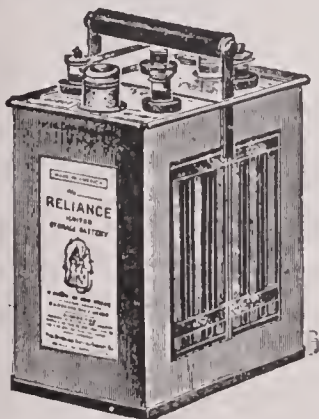
**The Auto Blacksmith Shop**

Phone : Calumet 1685

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Chicago, Illinois

**The** **RELIANCE** Igniter Storage Battery (Celluloid Jars)  
**RELIABLE** Igniter Storage Battery (Hard Rubber Jars)



Also Motor Cycle Type in Celluloid or Rubber

WE MAKE 44 STANDARD STYLES AND SIZES

Our 18th year in the manufacture of Storage Batteries and accessories of every kind. Write for catalogs of Dome Lamps, Hydrometers and other Specialties

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# THE GEISZLER

## Non-Sulphating Storage Batteries

Size 66, 6 Volts, 60 Amp. Hrs.



PRICE  
**\$15.00**

Perfect satisfaction **Guaranteed** or money refunded any time within one year of date of purchase.

Superior to any other Storage Battery regardless of price.

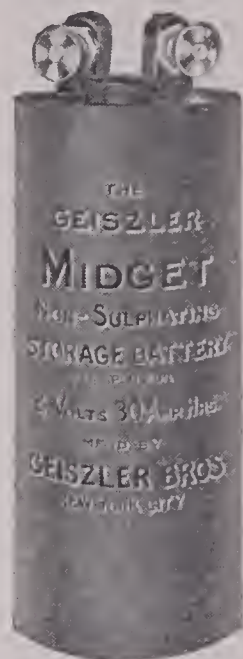
# THE GEISZLER MIDGET

## Non-Sulphating Storage Battery

2 Volts, 30 Amp. Hrs.

PRICE  
**\$2.50 Each**

Give more power and speed than dry cells, will hold their charge for months when not in use, can be recharged for 15 cents each, and will outlast three sets of dry cells on each recharge.



Same size as  
No. 6 Dry Cell

SEND FOR CATALOG

**GEISZLER BROS. STORAGE BATTERY CO.**

512 West 57th Street

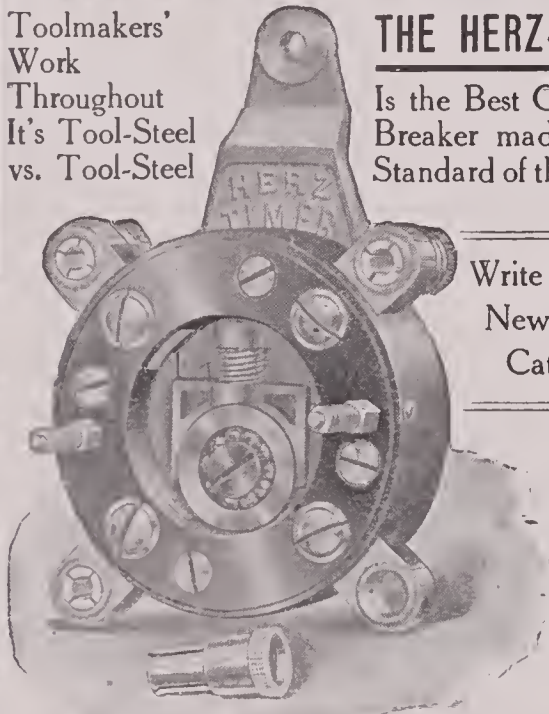
NEW YORK CITY

## PERFECT TIMING!

Toolmakers' Work  
Throughout  
It's Tool-Steel  
vs. Tool-Steel

### THE HERZ-TIMER

Is the Best Circuit-Breaker made—The Standard of the World



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New 1909  
Catalog

### NEW—See the HERZ ROLLER TIMER

Double Ball Bearings — Snap Connections  
Large Roller on Balls It's perfection

THE WONDERFUL  
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NEVER BURNS OFF  
NEVER WEARS OFF

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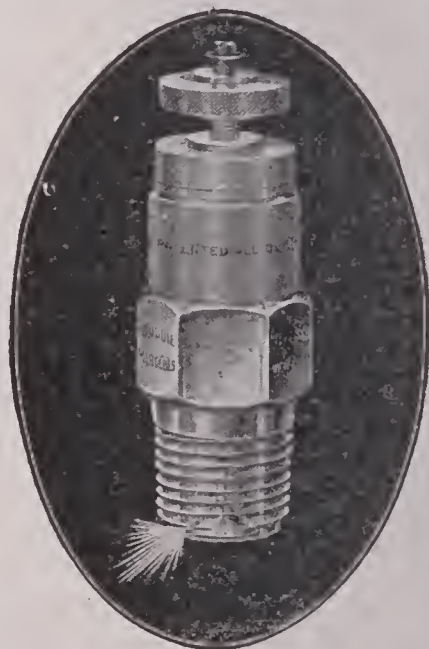
### The HERZ-PLUG

"BOUCIE MERCEDES"

IS THE BEST AND MOST RELIABLE SPARK PLUG EVER MADE—The double-stone insulation alone lifts it sky-high above the best porcelain plug. Stone will **NEVER** crack; porcelain does. **The Herz-Plug** is proof against oil or soot; self-cleaning. Forms part of your motor, same as the pistons. Needs never to be taken out.

PRICE  
**\$1.50**

Standard or  
Magneto Types  
ASK YOUR DEALER



**HERZ & CO.,** Civil Engineers, Cor. Lafayette & Houston Sts., NEW YORK

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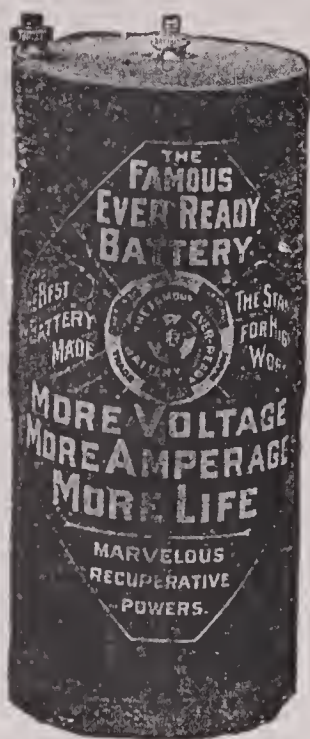
Copies of the directory are fifty cents each.

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**"Eveready" Dry Cells**  
The Battery of Quality



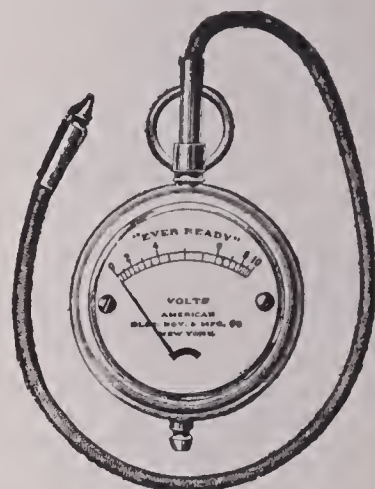
- No. 406. Type "J"  
2½ x 6 inches . . . . 25c  
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Size to fit the vest pocket.  
Without doubt the smallest,  
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- No. 1002 Ammeter . . \$3.00  
0-30 Amperes  
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Each instrument in a  
chamois leather case.



No. 1002 Ammeter

**"Eveready" Bull Dog Battery Connectors**

They never let go.

Eliminate all ignition  
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**BEWARE**  
of worthless infringements.

Price, per box of 10 . . . 60c



**AMERICAN EVER READY COMPANY, 184 LAKE STREET, CHICAGO, ILLINOIS**

*THE SUN SHINES IN GOOD WEATHER*

**Blue Ribbon Auto Cream**

**SHINES ALL THE TIME**



**THE 20th CENTURY  
METAL POLISH**

REMOVES TARNISH INSTANTLY  
DOES NOT SETTLE. LEAVES NO  
POWDER OR SEDIMENT

**It Is There With the Shine in Quick Time**

**SEND 10 CENTS FOR TRIAL CAN**

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PERFECT LUBRICATION OF ALL TYPES OF AUTOMOBILES. ALSO ADAPTED  
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## A CARBON AND FROST PROOF OIL

LOW CONSUMPTION—PERFECT SATISFACTION—SURE LUBRICATION

SOME OF THE CHARACTERISTICS THAT MAKE POLARINE OIL BEST SUITED  
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Was used on FORD CAR No. 2, winner of the New York-  
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FOR DIFFERENTIALS, AXLES, BALL AND ROLLER BEARINGS, UNIVERSAL  
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If your dealer cannot supply you, address

# STANDARD OIL COMPANY

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come to all who do not use the kind of Spark Plugs  
that will work under all engine conditions, regardless  
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### VANGUARD SPARK PLUGS

the central firing pin or point has been eliminated  
and the spark is forced to  
a connection with spiral  
platinum wire encased in  
porcelain through a mi-  
croscopic aperture that  
does not permit even air  
to enter.

The absence of firing  
pin or point causes greater resistance with a hotter  
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plug may become, a clean circular spot is found  
where closing of circuit is forced. Let the VAN-  
GUARD Spark Plug demonstrate its efficiency.

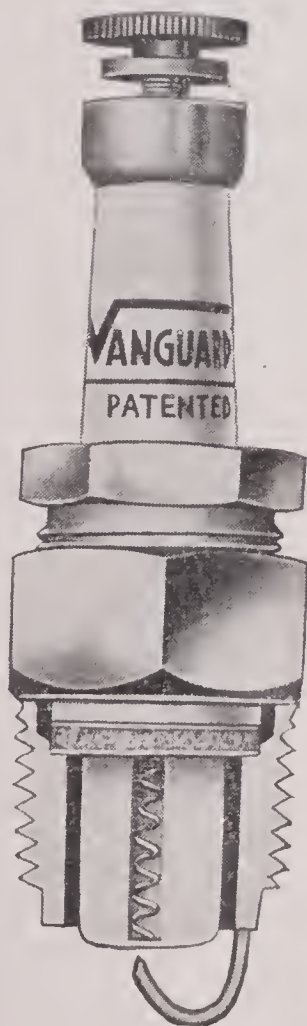
Standard  $\frac{1}{2}$ -inch and metric thread \$1.

A. L. A. M. \$1.25. Sent postpaid on receipt of price.

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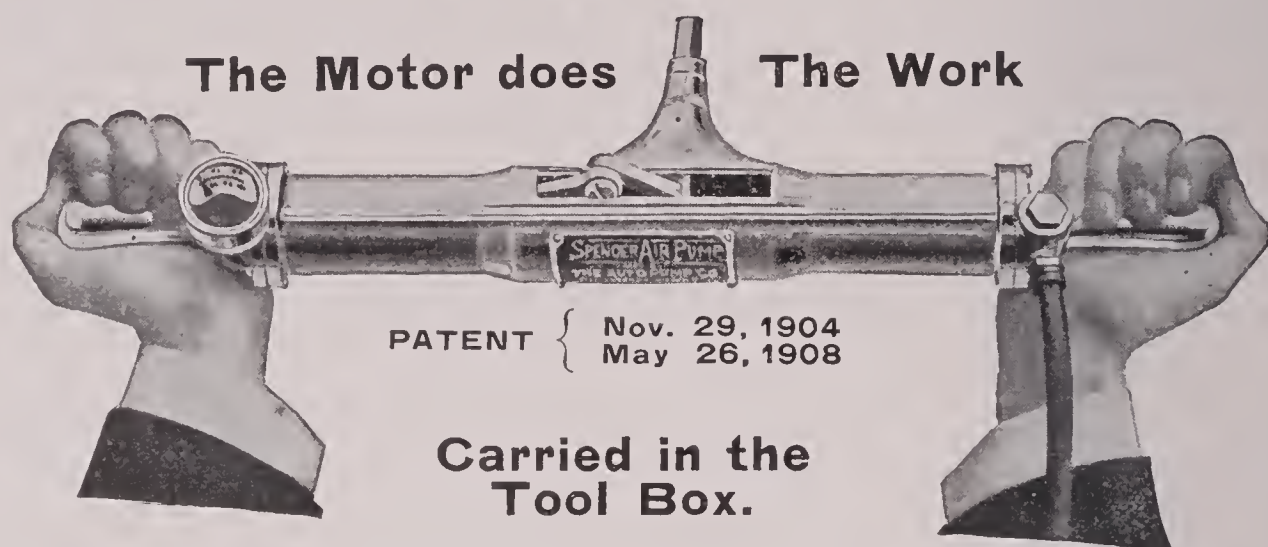
Manufacturers of the famous Vanguard Wind Shields





OUR LINE FOR 1909-1910

# The Spencer Power Air Pumps

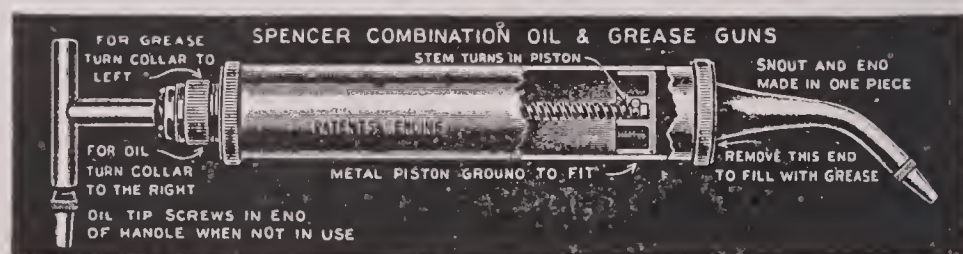


The Motor does The Work

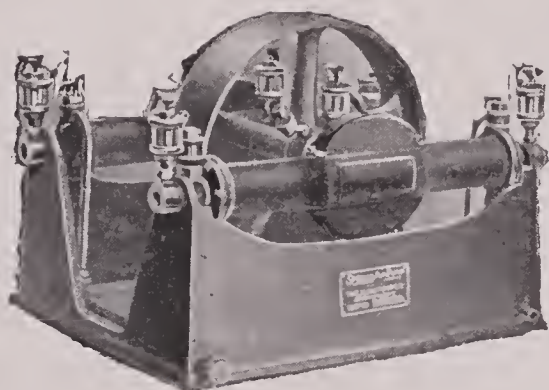
PATENT { Nov. 29, 1904  
May 26, 1908

Carried in the  
Tool Box.

**This Pump** is built like a high-grade engine, cylinder, pistons and piston rings, ground to the thousandth part of an inch. There are no leather packings to dry or wear out. It will inflate your tire in two minutes, saving time and labor. It will increase the life of your tires by keeping them properly inflated.



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Our four cylinder **Garage Pump** is made up of drop forged pistons and cranks and equipped with piston rings.

It will give a high pressure and large volume, and will do the work of a pump costing twice the money.

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SPRINGVILLE, N. Y.

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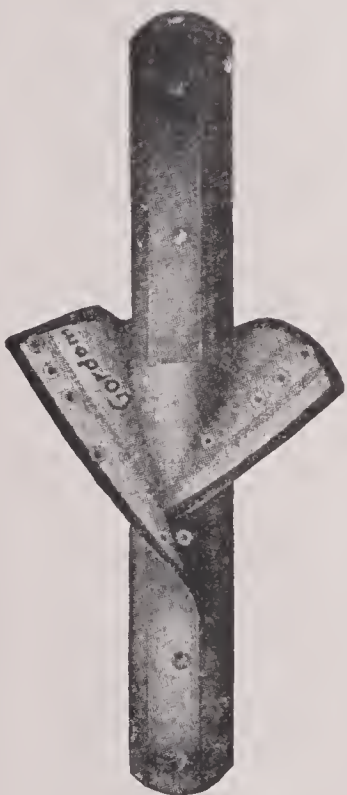
Fits Neat  
and Smooth



Keeps Top Clean

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## GORDON NEW ENGLAND TIRE COVER



Buttons on the tread  
of the tire—don't scratch  
polished surface : : :

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C A T A L O G U E   F R E E

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**The Vehicle Apron & Hood Co.**

COLUMBUS, OHIO

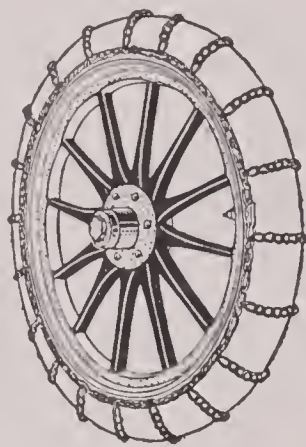


# IT MAY RAIN TO=DAY

or to-morrow or next day. Then you'll need Weed Chain Tire Grips. And you'll need them badly. There is only one way that you can be positively sure that your car is not going to skid off the road, and that is — by using

## Weed Chain Tire Grips

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Weed Chains are easily attached or removed. They are in use only when you need them. They occupy but little space in the tool box. The new Weed cross chains are BRASS PLATED—see that you get them.

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Need no recommend — ask  
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Manufacturers of  
Gilbert Tire Covers  
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Gilbert Manufacturing Company  
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(TRADE MARK REGISTERED)

For Cleaning  
Automobiles  
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## GREEN OIL SOAP

Varnished  
Surfaces  
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is the highest grade

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Does not injure the varnish, paint or leather. Quickly removes grease, stains and dirt from autos, leather, clothing, hands, etc., without the least injury. Does not necessitate an additional application of a finishing polish to restore the lustre to the auto body. This soap has been tested on a highly polished wood panel 1350 times and the polish and finish is still perfect.

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Sole Manufacturers

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ELECTRIC VULCANIZERS

**KEEP**

UP	DOWN
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TIRES	EXPENSES



There is nothing that will so add to the comfort of a tour, as the knowledge that you have nothing to fear through punctures and blow-outs.

A SHALER will keep your tires in perfect condition and appearance.

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Est. 1884

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WE CARRY

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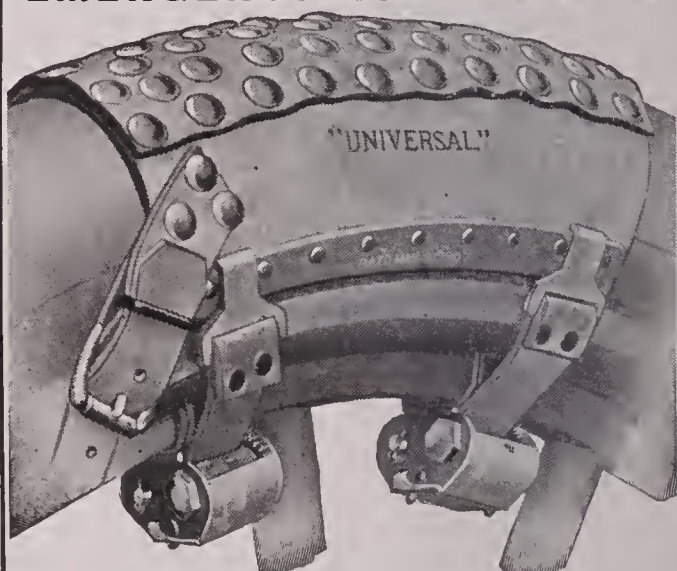
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The full tread protector with an adjustable tension anchorage. Unlimited tension and adjustment. A positive non-detachable anchorage, which eliminates all possibility of tire injury from friction or abrasion. Special steel stud rivet traction armor, with protecting armor all the way over, affording positive traction, absolutely non-skid and puncture proof. A safe and sane tire protector for all possible road conditions. Write for descriptive circular and prices.

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For temporary protection and repair. Ratchet tension anchorage. Instantly adjusted. It is placed or removed in a "jiffy." No lacing. No tools, but the little wrench. The "Universal" sleeve is guaranteed to bring you in on 4 wheels in any case of tire injury from a scratch to a blow-out. Saves you time, saves your temper, saves your tires.

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Chicago Agents.  
**UNIVERSAL TIRE PROTECTOR CO.**  
Angola, Ind., U. S. A.



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(FOR LUBRICATION)



*"It Makes a Difference"*

Havoline Oil has a high fire test and just the right amount of body. It is filtered free from all carbon producing impurities.

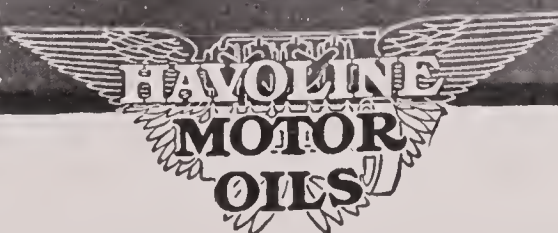
It is the best gas engine oil made.

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W. P. FULLER & CO.  
San Francisco, Cal.





# H. C. KNIGHT & CO.

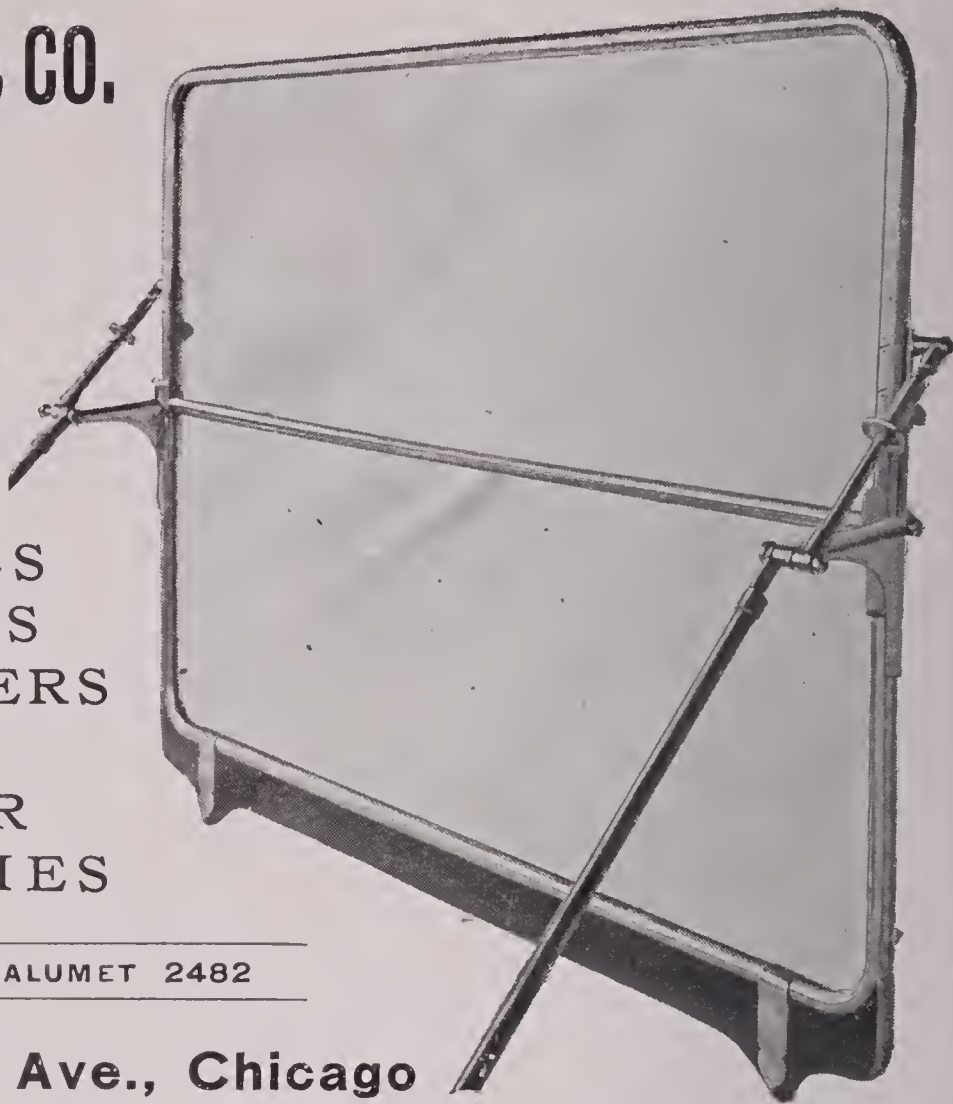
MANUFACTURERS

## THE KNIGHT AUTO SHIELD

BUMPERS  
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TIRE HOLDERS  
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AND OTHER  
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*"The Oil in the Checkerboard CAN"*



will prove to you by a test on your own car that it pays to be careful in the selection of cylinder oil and other lubricants. Thorough lubrication and freedom from carbon at the same time are results worth trying for.

DON'T ECONOMIZE ON YOUR OIL—it is poor economy. Poor cylinder oil will increase your repair bills far more than the slight saving in price originally.

WE CANNOT MAINTAIN Panhard quality and compete with cheap prices and we will NOT lower the quality. You will thank us for it in the long run.

PANHARD OIL has set the standard by which other cylinder oils are judged. Why not get the best? Send for our booklet, "Lubrication."

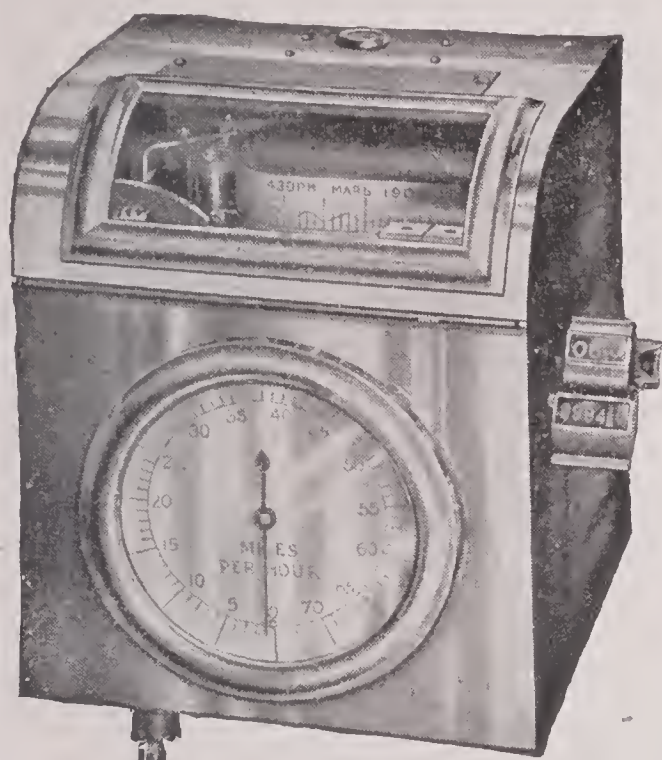
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73 PINE STREET

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Every owner of an Automobile needs a

# Recometre



**Because:** It gives a plain and permanent record of his car; it tells how far the car goes; it tells how fast it goes; it tells when it stops and how long it stops.

**Because:** This record can be referred to at any time and is absolute proof of the speed of your car. It is better than a watchman in keeping your car from unauthorized use.

THE ONLY INSTRUMENT THAT TELLS AND TELLS  
TRULY EVERY MOVEMENT OF AN AUTOMOBILE—ALL  
THE TIME :: :: WORKING EVERY MINUTE—DAY AND NIGHT

*Each  
Recometre  
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A Record  
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*Six Distinct  
Devices in One*

Price, Style "A" for Automobiles \$100.00

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EQUIP YOUR CARS WITH

# HEALY RIMS

(DEMOUNTABLE TYPE)

Fits any tire and enables that tire to be  
changed in three minutes.



Spare tires carried inflated on extra rims at the side of the car.  
Healy Rims fitted to any wheel in one day.

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HEALY LEATHER TIRE CO.  
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CHICAGO AGENCY:  
The Motor Car Supply Co. - 1451 Michigan Avenue



# The **SQUEAK DEVILS'** finish

## Mexican Graphite

## Automobile Lubricants

Reduce friction, smooth out kinks and stop squeaks. Put new life into old machines; give smoother, greater power to new ones.

### **Minimize Wear and Save Repairs** by Using Only

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These lubricants carry just the correct proportion of pure soft Air Floated Lubricating Graphite---not "flake" graphite but **powdered** graphite of impalpable fineness, **absolutely free from grit** and of such a peculiarly adhesive nature as to cause it to "stay put" (something that "flake" graphite will not do) on that part of the bearing with which it comes in contact.

**THE UNITED STATES GRAPHITE CO.**  
GENERAL OFFICES AND FACTORY, SAGINAW, MICHIGAN, U. S. A.

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It Stands in a  
Class by Itself

It is made by a  
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having 20 years'  
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The great Steam and  
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**"Exide"**

## The Electric Storage Battery Co.

1888

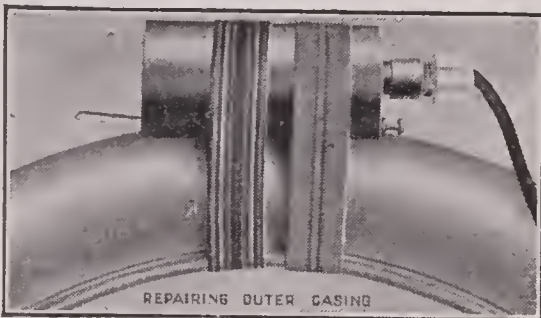
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1909

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"Chloride Accumulator" "Tudor Accumulator" "Exide Accumulator"



REPAIRING OUTER CASING

### PREPARE FOR EMERGENCIES ON THE ROAD

Buy a Buffalo Electric Vulcanizer and  
**REPAIR YOUR OWN TIRES**

outer casing or inner tube—for a few cents  
at night for next day's touring. Don't go  
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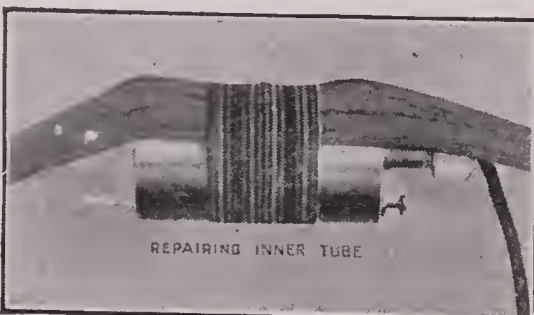
**SAVE TIME, SAVE MONEY, SAVE PATIENCE**

Our introductory price will surprise you.  
Write today for "Tire Troubles."

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BUFFALO, N. Y.



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One of Our 25 Different Styles

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CHICAGO REPRESENTATIVES

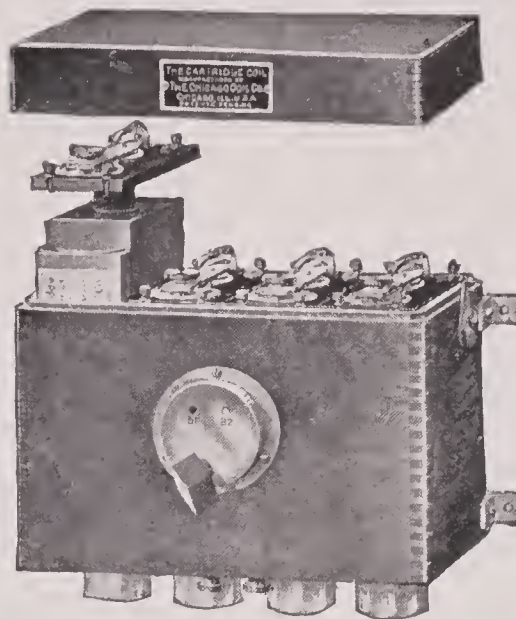
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# Cartridge Coils

This coil is so made that you can replace any part in a few seconds' time.

No units to throw away. Economical on current. Has the switch with a memory which saves platinum wear and is in every way a superior article.



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- 1 Cylinder, \$10.00
  - 2 Cylinders, 20.00
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  - 4 Cylinders, 40.00
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Parts are standard and interchangeable

**GUARANTEED FOR ONE YEAR**

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**Cartridge Coil Company,** LAFAYETTE, INDIANA

Motor Car Supply Co. Chicago

Chicago Vulcanizing Co., Chicago

Standard Auto Supply Co., Chicago

## FISK QUALITY

### Adds to Your Touring Comforts

We make tires to fit any rim and maintain Branches in seventeen principal cities in the United States

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REMOVABLE RIMS

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**THE FISK RUBBER COMPANY**

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IS A TRIPLE FILTERED,  
HIGHLY REFINED PE-  
TROLEUM LUBRICANT

*Absolutely Free from Carbon, Dirt,  
Grit, Gum, Acid, Etc.*

GUARANTEED  
TO GIVE  
PERFECT LUBRICATION  
ON ANY  
GASOLINE ENGINE

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Sullivan Oil Company, Chicago

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## PUMPELLY BATTERIES

### ARE THE BEST

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FOR

SPARKING, LIGHTING  
AND PROPELLING THE  
AUTOMOBILE

¶ We manufacture them in  
all sizes and capacities. We  
renew any make and size  
Storage Battery.

WE USE NO WOODEN  
SEPARATORS

WRITE FOR PRICES

PUMPELLY BATTERY CO.

1202 to 1212 E. 22d Street  
Indianapolis, Indiana



6 volt, 60 ampere hours, guaranteed to run car  
over 2,000 miles on one charge if spark  
coil is properly adjusted.

534 Pages

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AUTOMOBILE  
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Wire or write when in a hurry.

We will give you what you want when you want it.

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**Largest Auto Supply House  
in the World**

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***Motor Car Supply Co.***

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**1451-1453-1455 Michigan Boulevard, CHICAGO**



# In Actual Brake Tests this Plug has shown Greater Horse Power than any other



John B. Anderson, M. D.

01809 Division Street, Spokane, Wash.  
May 27, 1909.

The National Steel Products Co.,  
Cleveland, Ohio.

Gentlemen:

Enclosed please find my check in the sum of Eight Dollars for which send me four spark plugs. I have tried plugs of several different makes. Yours is the best ever. I have a set that I have used in my Ford Model N Car **for a year**. Yesterday I went for a seventy mile run, and as one of my plugs is in poor condition, the mica being broken, I purchased a new plug said to be soot proof and to spark in oil and water. I made the run of thirty-five miles with the engine being erratic after the first few miles, and as I was loosing power on the hills I examined the plugs, found the New Plug as black as soot itself, and the other three plugs all with a sparking surface. I brushed them off with a stiff brush, and put in my old dilapidated plug and made the other thirty-five miles without mishap. **I do not give a D— whether a plug will spark in oil and water. I want one that will spark in the cylinder, and permit me to say that your plug will do it.** I think that you will make the other fellows sit up and take notice. I tell you this now, as post mortem roses have their beauty lost to the fellow most interested.

Yours very truly,

JNO. B. ANDERSON.

We are supplying a number of the largest automobile manufacturers, who have previously contracted for other plugs, with our Spiral Core, Blue Blaze and Rapid Fire Plugs, for 1909 use, they having discontinued other plugs because of better results from ours.

## Horse Power







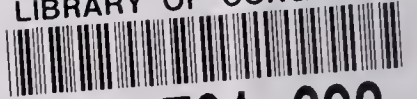








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